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# KANSAS ARMY AMMUNITION PLANT

## SUPPLEMENTAL PHOTOGRAPHIC DOCUMENTATION OF ARCHETYPAL BUILDINGS, STRUCTURES, AND EQUIPMENT FOR U.S. ARMY MATERIEL COMMAND NATIONAL HISTORIC CONTEXT FOR WORLD WAR II ORDNANCE FACILITIES

by  
K. Diane Kimbrell  
Kathleen E. Hiatt

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U.S. ARMY MATERIEL COMMAND HISTORIC CONTEXT SERIES  
REPORT OF INVESTIGATIONS  
NUMBER 5B



GEO-MARINE, INC.



US Army Corps  
of Engineers  
Fort Worth District

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19. ABSTRACT (Continue on reverse if necessary and identify by block number)  This report presents a photographic record of the archetypal buildings, structures, and equipment of the World War II Ordnance Department's government-owned, contractor-operated (GOCO) industrial facility, the Kansas Army Ammunition Plant, at Parsons, Kansas. This photographic documentation was completed under partial fulfillment of an Army Materiel Command (AMC) Legacy Resource Program demonstration project for assistance to small installations and in fulfillment of the 1993 Programmatic Agreement among the AMC, the Advisory Council on Historic Preservation, and Multiple Historic State Historic Preservation Officers concerning the program to discontinue maintenance, or dispose, of particular GOCO properties.  The objective of the project was to photographically record World War II-vintage equipment and buildings, some of which housed different stages of the ammunition manufacturing process and were of the same architectural design. Modern buildings and equipment are not included in this document. Efforts were made to arrange the photographs in the order of ammunition manufacture and facility processes; however, this presentation should not be perceived as a complete chronological sequence for ammunition manufacturing during World War II. The buildings photographed in this document are classified as under either "stand-by" or "layaway" status. The active buildings depicted in this volume are of an insensitive and/or "safe" nature and include Administration and Shop buildings.					
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**ORDNANCE FACILITIES**

by

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Prepared for

U.S. ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT

U.S. ARMY MATERIEL COMMAND HISTORIC CONTEXT SERIES  
REPORT OF INVESTIGATIONS  
NUMBER 5B

by

Geo-Marine, Inc.  
550 East 15th Street  
Plano, Texas 75074

March 1995



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## I.

### INTRODUCTION

This report presents a photographic recordation of the archetypal buildings, structures, and equipment of the Ordnance Department's World War II government-owned, contractor-operated (GOCO) industrial facility, the Kansas Army Ammunition Plant, Parsons, Kansas. Geo-Marine, Inc. was contracted by the U.S. Army Corps of Engineers, Fort Worth District to undertake this project in September of 1993. Duane E. Peter, Director of the Cultural Resources Division of Geo-Marine, Inc., acted as Principal Investigator for the project. Kathleen Hiatt completed the photographic fieldwork for the project.

This photographic documentation was completed under Delivery Order No. 14, Contract No. DACA63-93-D-0014, Task C, in partial fulfillment of a Army Materiel Command (AMC) Legacy Resource Program demonstration project for assistance to small installations. This documentation also represents partial fulfillment of the requirements of the 1993 Programmatic Agreement among the AMC, the Advisory Council on Historic Preservation, and the Multiple Historic State Historic Preservation Officers concerning the program to discontinue maintenance of, or dispose of, particular government-owned properties. This work was conducted in compliance with the National Environmental Policy Act of 1969 (PL 90-190); the National Historic Preservation Act of 1966 (PL 96-515), as amended; the Archaeological and Historic Preservation Act of 1974 (PL 93-291), as amended; and Executive Order No. 11593, "Protection and Enhancement of the Cultural Environment."

In completion of this task, a map showing building numbers; a photographic log; and the photographs of various buildings, structures, and equipment; as well as a brief history of the installation have been included for the Kansas Army Ammunition Plant.

## II.

### PHOTOGRAPHIC RECORDATION LOGISTICS AND METHODOLOGY

The objective of Task C was to photographically record World War II vintage buildings and equipment. Numerous buildings that housed different stages of the ammunition manufacturing process were of the same architectural design. Accordingly, the order of photographs that follows is based on differences in architectural design, rather than on the step-by-step process of ammunition manufacturing. Modern buildings and necessary equipment in ammunition processing are absent from this photographic account due to their vintage (i.e., replacement equipment, though similar in function and/or design, was not photographed). Ammunition manufacturing is divided into lines according to the type of ammunition being manufactured and by process stages. Additionally, there may be more than one line for the same ammunition type at the same stage. Accordingly, the architectural design of these buildings in different lines is similar, as is their equipment. Photographs of specific building types were not taken from a single line, rather the photographs were taken from any number of lines as directed by the sun angle and physical restrictions. In short, though efforts were made to arrange the photographs in order of ammunition and facility processes, the presentation should not be perceived as a complete and chronological order of ammunition manufacturing.

Photographs of ammunition buildings and equipment in this account are classified under either "stand-by" or "lay-away" status. Depicted active buildings are of an insensitive and/or "safe" nature. Such buildings include administration and shop buildings.

Photographic angles were largely dependent upon the angle of the sun and spatial restrictions. Time constraints and work schedules of the escorts did not allow for return visits to buildings that may have been better depicted with a different sun angle. In many cases, preferred angles for photography were impossible due to overhead pipelines, power line poles, and other structures.

Motors, tanks, and pumps are necessary in numerous plant processes. Due to the common function and design of such equipment, a single photograph was taken to represent any number of similar pieces of equipment. A representative unit was selected for its physical integrity and photographic accessibility; however, due to modernization and alterations of plant processes, all original equipment has reportedly been shipped out of the Kansas Army Ammunition Plant. Thus, few pieces of World War II equipment are contained within this account.

### III.

## HISTORICAL OVERVIEW

The Kansas Army Ammunition Plant is located on a reservation of land that encompasses 17,200 acres, approximately a mile southeast of Parsons, Kansas (Figure 1). The process of site selection was based on several criteria set up by the Ordnance Department. For instance, the site could not have been a coastal area (and in fact, it had to be at least 200 miles away from any U.S. border), for obvious reasons of national defense. The location also could not have been located near a large center of population for safety requirements; however, it had to be located in an area that could recruit a sufficient work force for construction and operation. Among other criteria considered were that the site had to have access to electricity, water, railroads, and highways to ensure a degree of self-sufficiency. Finally, a large tract of land had to be purchased due to the safety regulations that required adequate spacing between production lines and storage facilities (Thomson and Mayo 1991:108-109).

As the site for the Kansas Army Ammunition Plant met these criteria, a plan for the plant was designed. The plant was originally designed to load shells, bombs, and components (i.e., detonators, artillery primers, fuzes, and boosters), and for the processing of ammonium nitrate. The contract for constructing, equipping, and operating the plant was awarded to the J-M Service Corporation, a subsidiary of Johns-Manville Corporation of New York, N.Y. The construction of lines was finished and operating at different times. The first line to begin production was the bomb loading line which began operation on April 14, 1942. The ammonia crystallization plant opened on May 3, 1942, the booster line began operations on May 5<sup>th</sup>, followed by the detonator line and primer line on June 19<sup>th</sup> and June 30<sup>th</sup>, respectively. Finally, the fuze line was in operation by the 3<sup>rd</sup> of July 1942 (U.S. Government n.d.:160). It should be noted that certain factors contributed to the time period of Kansas Army Ammunition Plant's construction. First, heavy rains and flood waters in the fall of 1941 and again in June of 1942 slowed construction dramatically. In addition, a high turn-over rate of employees slowed the process. It should also be noted that the latest advances in technology during World War II were not employed at Kansas Army Ammunition Plant. Reportedly, private industry had new machinery and improved plant designs that should have been used at this government-owned, contractor-operated (GOCO) facility.

The industrial production facilities at Kansas Army Ammunition Plant consist of nine production lines, including a fuze loading line, a booster line, a detonator loading line, a primer loading line, a 105 millimeter shell loading line, a melt loading line, a demolition bomb loading line, an ammonium nitrate plant, and a lead azide plant (which was the only line not constructed during the World War II period). During World War II, these production facilities were operated under a contract to the Johns-Manville



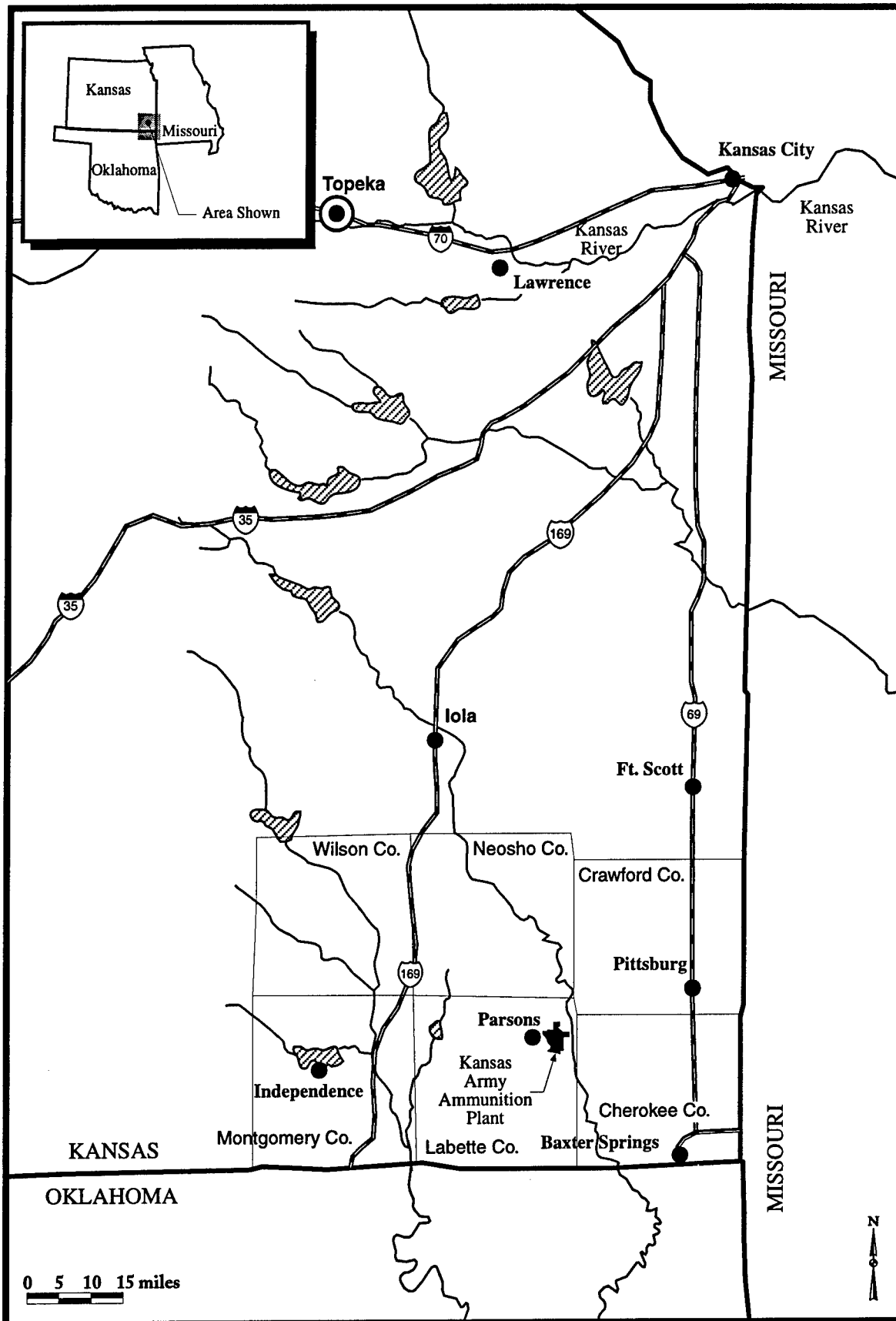


Figure 1. Regional location of Kansas Army Ammunition Plant.

Corporation and employed over 7,000 people. The plant was run by this company until it went on stand-by status in August of 1945. From 1945 to 1950 the plant remained on stand-by status and the government maintained the plant without a contractor. During the period before the Korean War, Kansas Army Ammunition Plant operated primarily as a storage facility and to issue ammunition (Burns and Muller 1984:21-25).

At the onset of the Korean War, the plant was reactivated by the Ordnance Department and renovated by the Corps of Engineers in the early 1950s. The plant was at full production status until 1957 when it was placed on stand-by again. Once again, the plant was reactivated due to the tensions in southeast Asia and began full capacity operations in 1967. For four years the plant ran at full capacity, but in 1970 various production lines began to be shut down (Burns and Muller 1984:22).

#### **IV.**

### **PHOTOGRAPHIC DOCUMENTATION**

## **ADMINISTRATIVE FACILITIES**

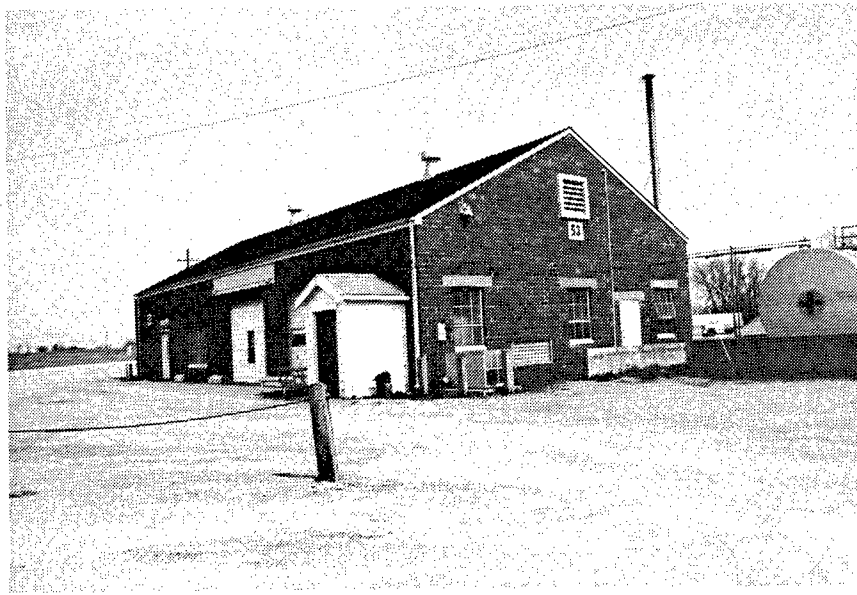


Figure 1. Building 53: General Administration Building.

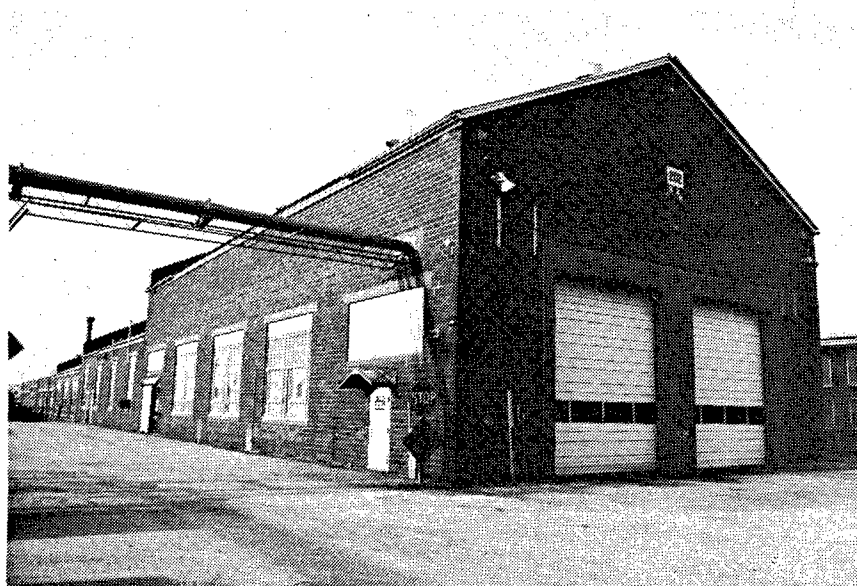


Figure 2. Building 202: General Purpose Administration Building.

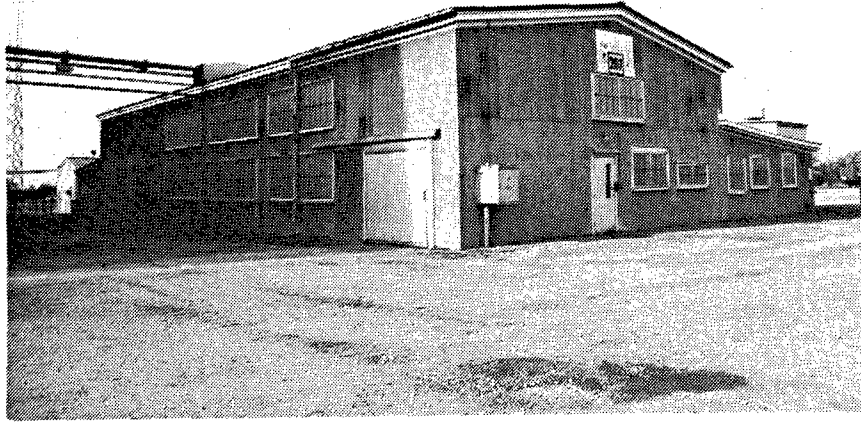


Figure 3. Building 207: General Purpose Administration Building.

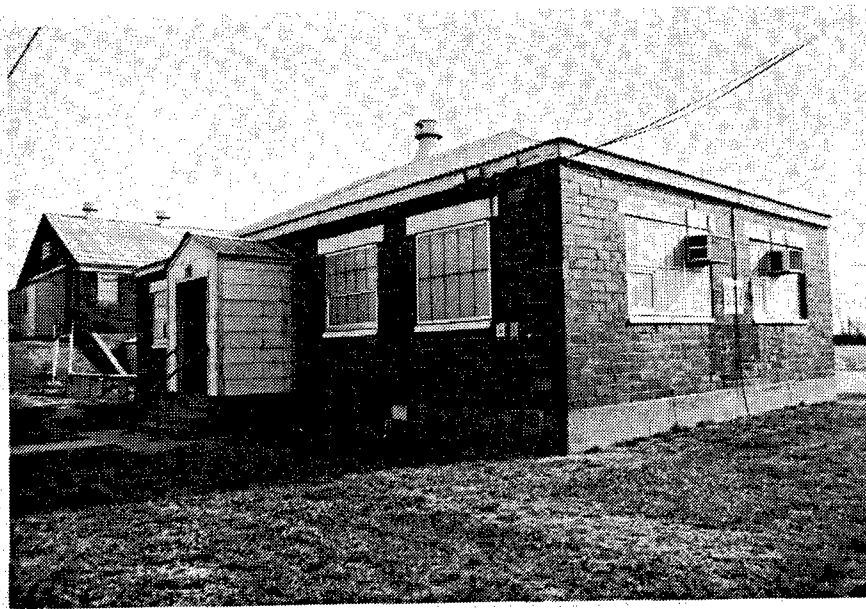


Figure 4. Building 322: General Purpose Administration for the 300 Line.

## **MANUFACTURING AND CHEMICAL PROCESS BUILDINGS**



Figure 5. Building 503: Screen House of the Metal Parts Loading Building series.

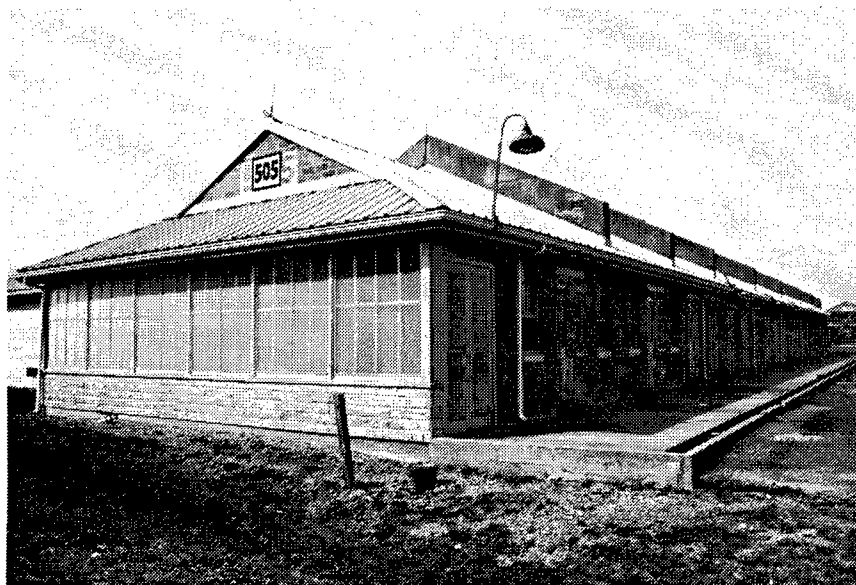


Figure 6. Building 505: Tetryl Pelleting Building.



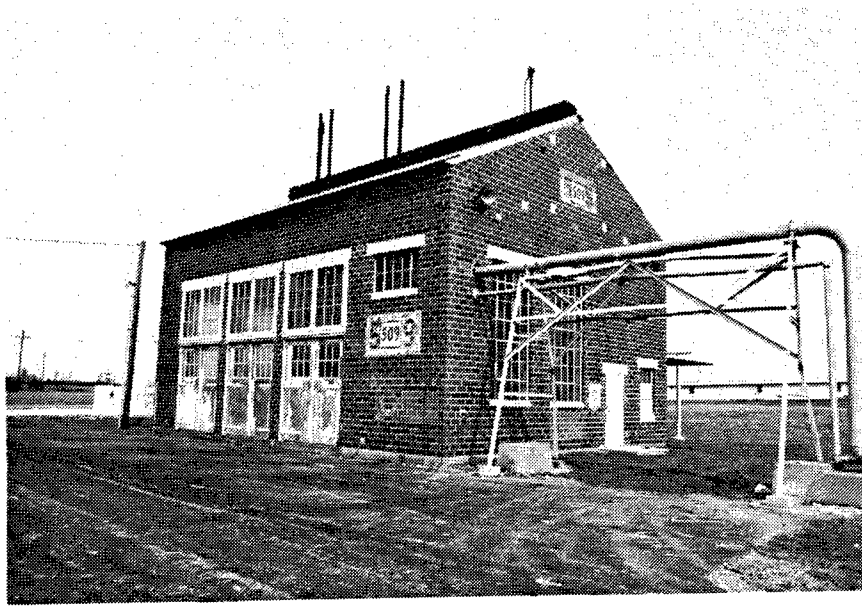


Figure 7. Building 509: Oil Heating Building or Boiler House.

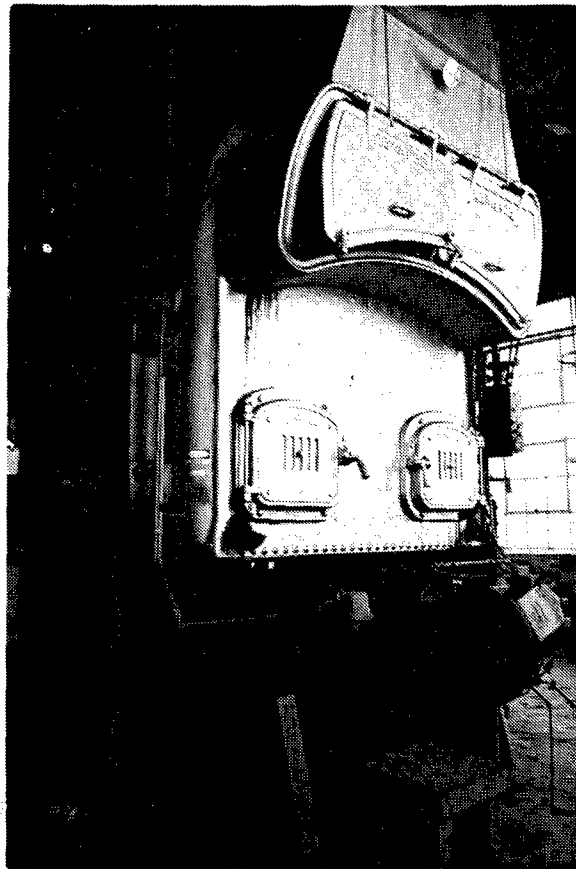


Figure 8. Building 509: An oil heated boiler in this building.

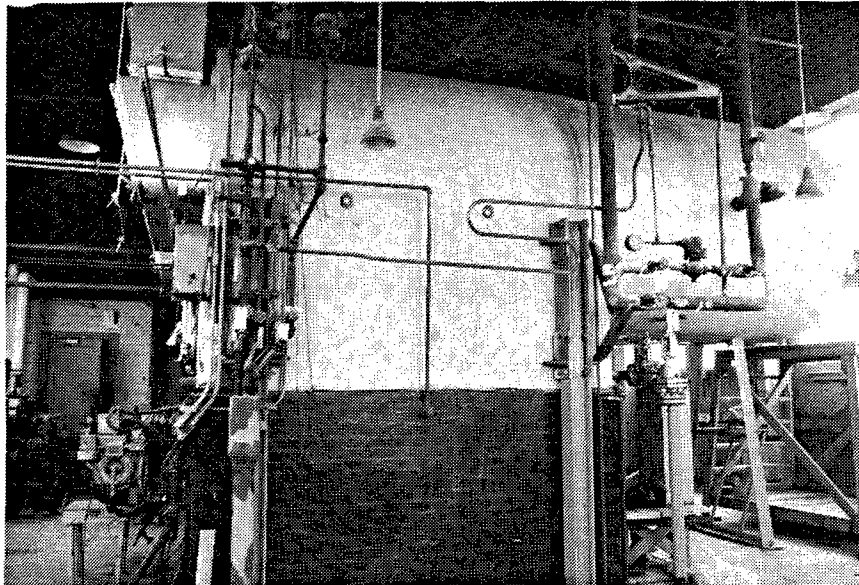


Figure 9. Building 509: Second view of the oil heated boiler.

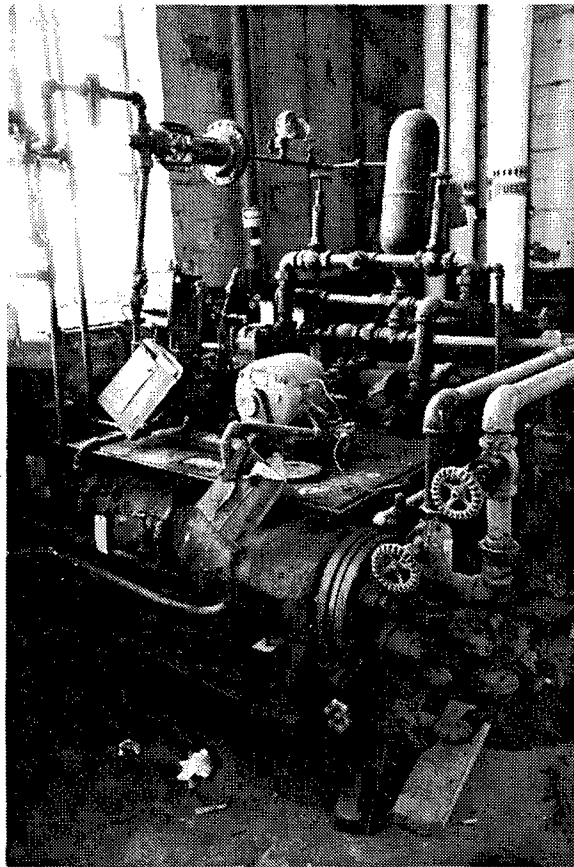


Figure 10. Building 509: Oil feed pump with General Electric motor (front) and oil service pump (rear) in this building.



Figure 11. Building 513: Metal Parts Loading Building where boosters and/or other charges were assembled, packed, and shipped out.

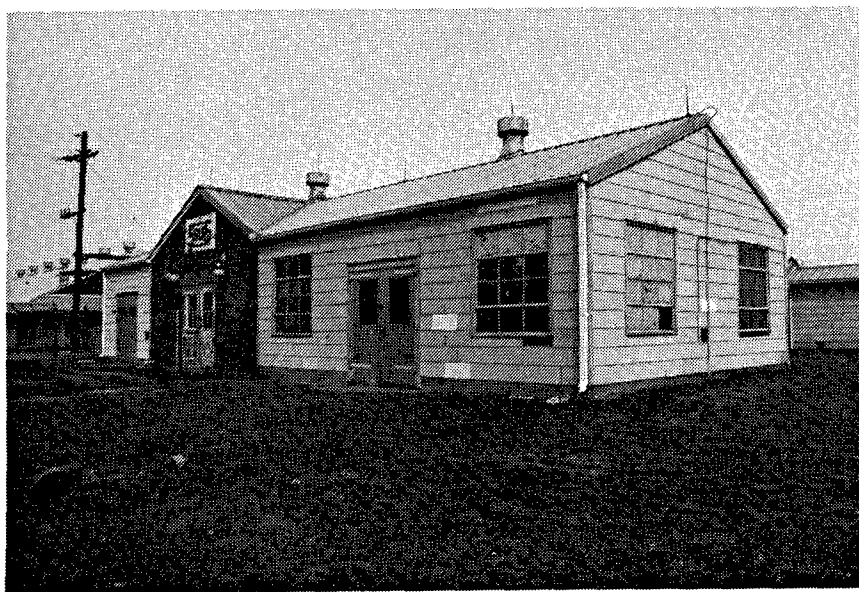


Figure 12. Building 515: Air Compressor Building.

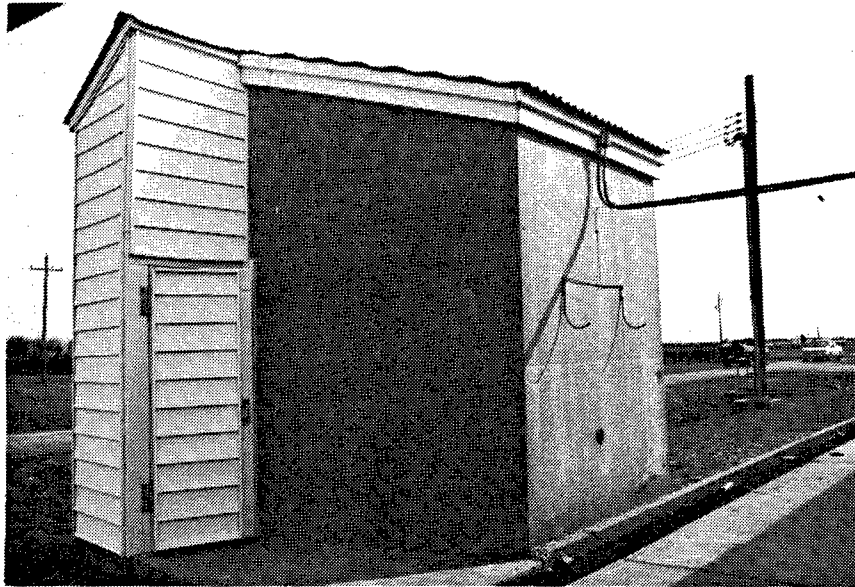


Figure 13. Building 540: This Metal Parts Loading Building served as a Vacuum Building.



Figure 14. Building 703 (left) and Building 704 (right): A Heater House and an Azide Building, respectively.

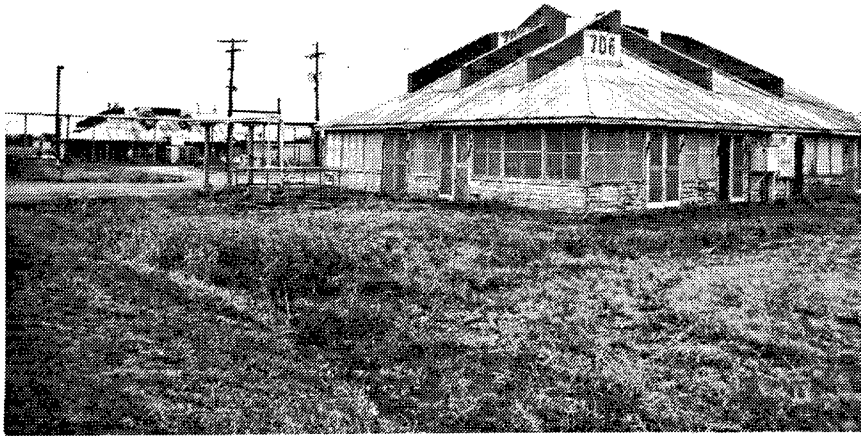


Figure 15. Building 706: Mercury Preparation House.



Figure 16. Building 715: Loading Building.

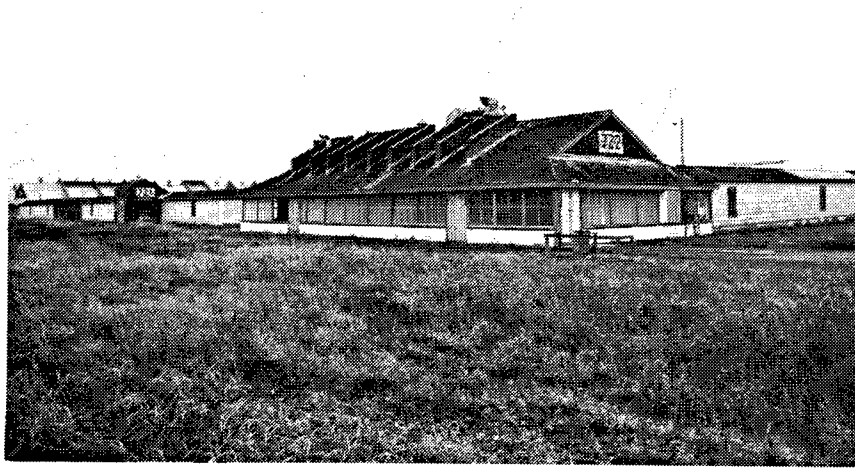


Figure 17. Building 722: Detonator Rumbling Building which has recently served as a Detonator Lacquering (painting) Building.



Figure 18. Building 724: Oil Boiler House.



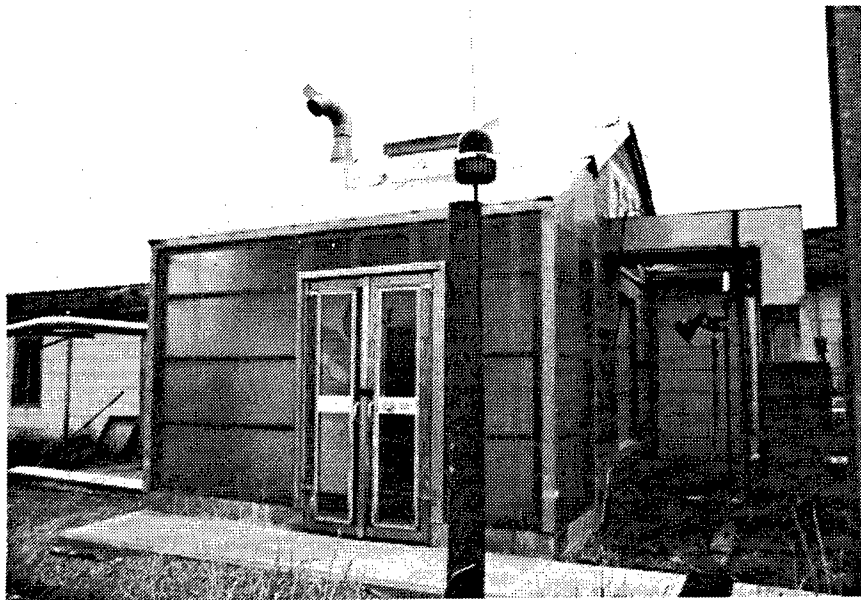


Figure 19. Building 732: A former Rest House remodeled to serve as a Primer Mix Bowling Building.



Figure 20. Building 740 (left) and Building 713 (right): Azide Napkin Preparation Building and its associated Heater House, respectively.



Figure 21. Building 744: Compressor House.

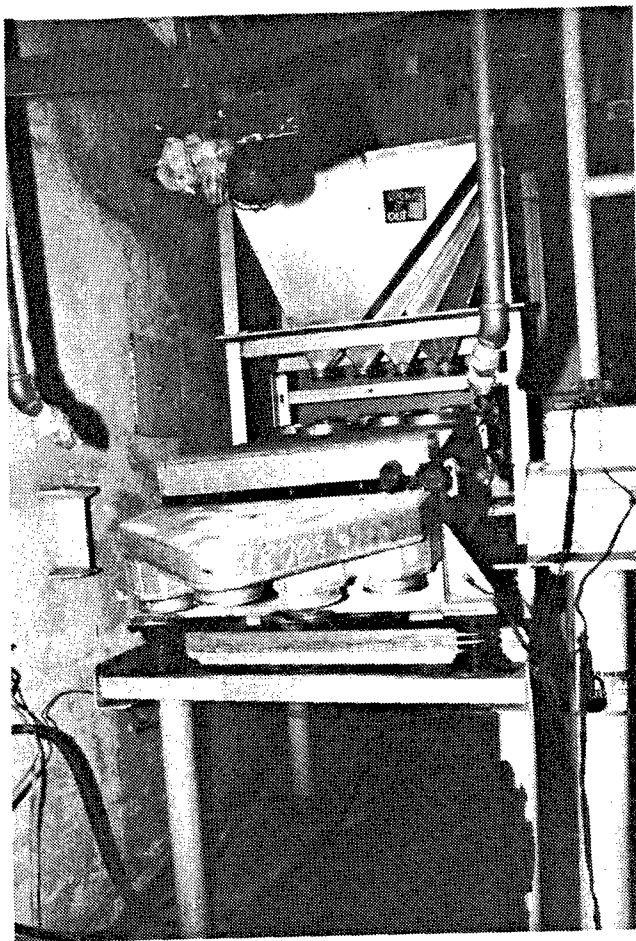


Figure 22. Building 804: Screen inside the Black Powder Screening House located on the 800 Line. It was used to screen and dry black powder.



Figure 23. Building 807: Fan House.



Figure 24. Building 809: Primer Loading Building.

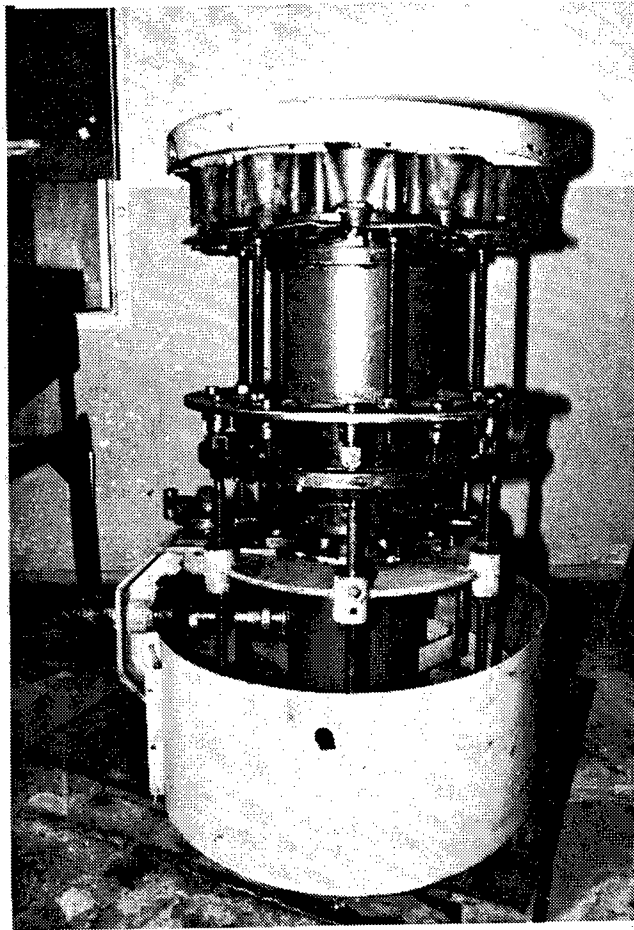


Figure 25. Building 809: A 1942 motor-driven volumetric loading machine with twelve stations, rotary table, and manual clutch located in this Primer Loading Building.



Figure 26. Building 812: Primer Preparation Building.

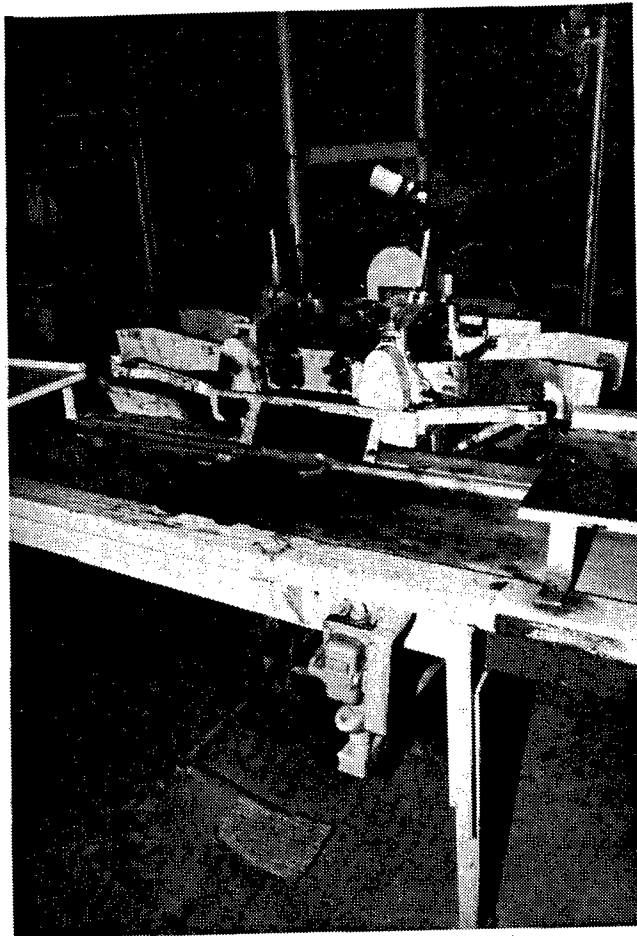


Figure 27. Building 812: Consolidated Packing machine manufactured in 1942.

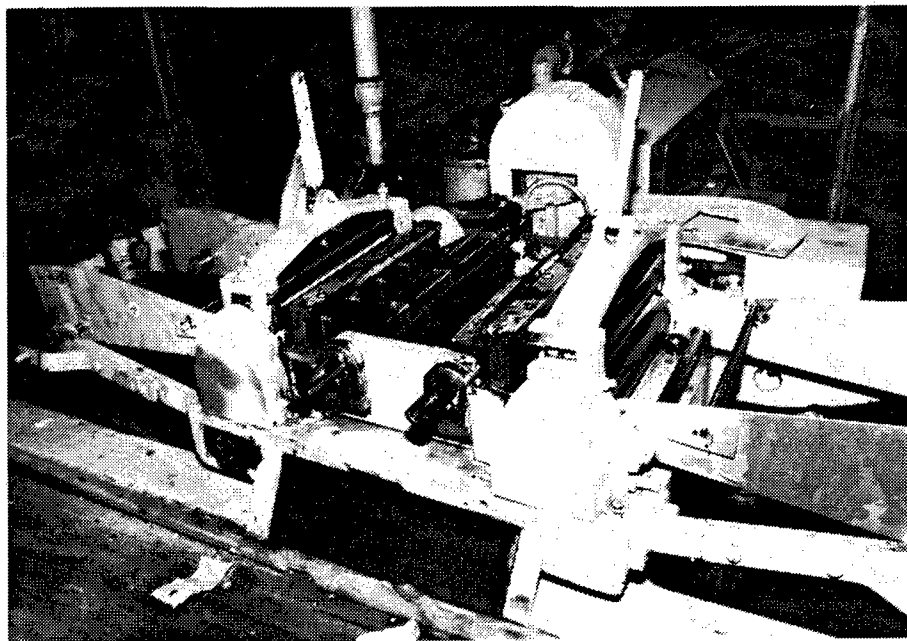


Figure 28. Building 812: Second view of the Consolidated Packing machine.



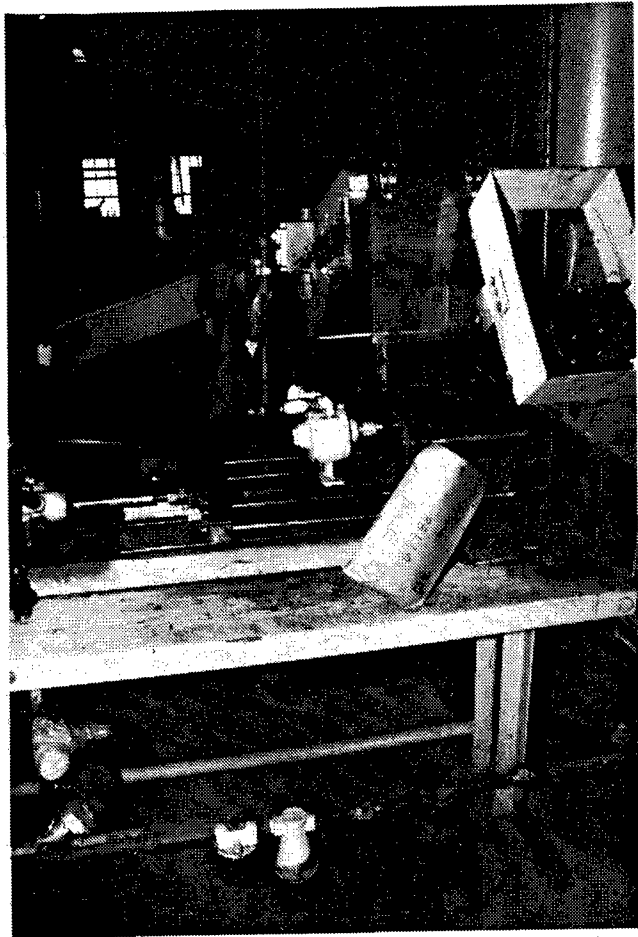


Figure 29. Building 812: Lacquering machine.

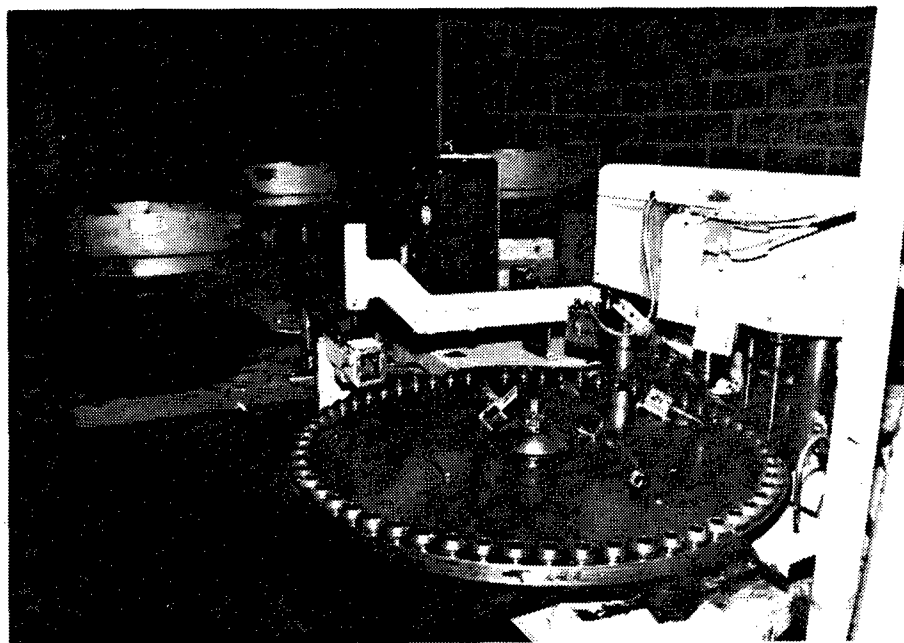


Figure 30. Building 812: Pennsylvania Pinhead machine.

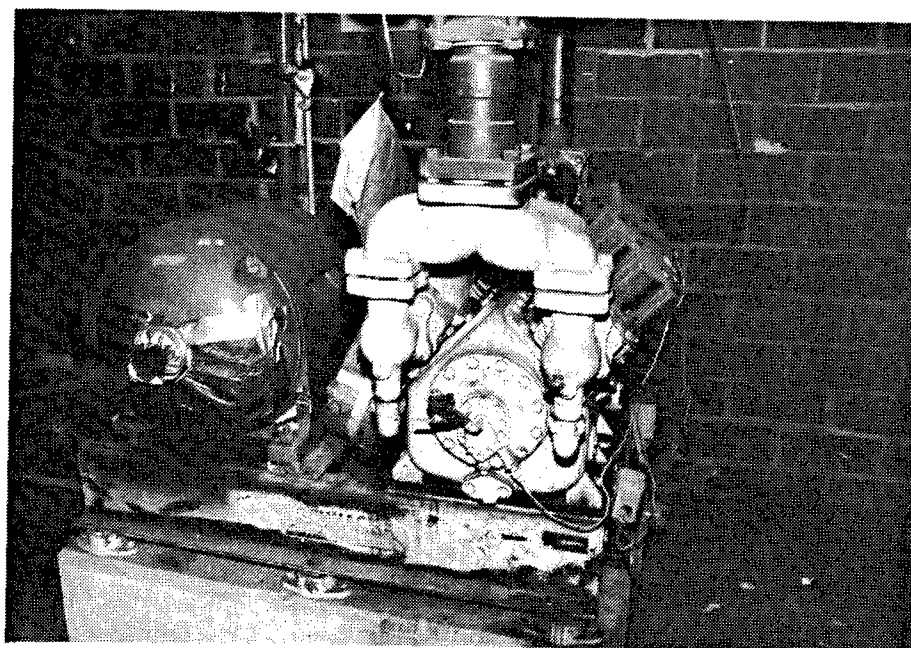


Figure 31. Building 812: Air Conditioner Compressor.



Figure 32. Building 816: Black Powder Pelleting Building.

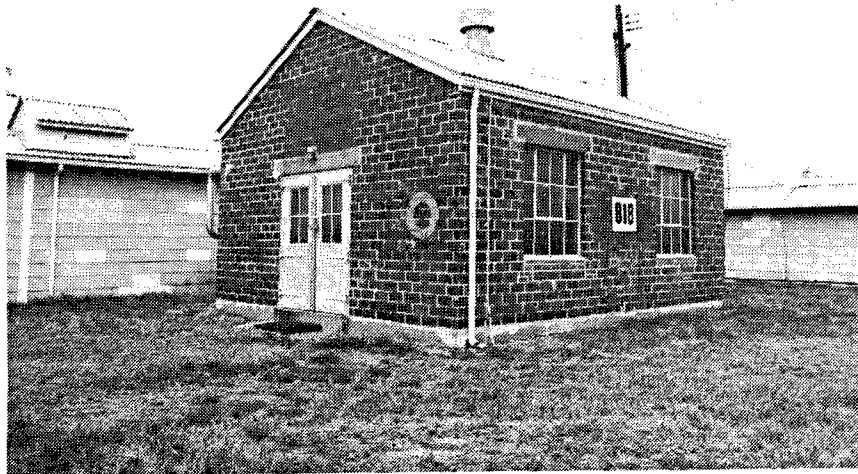


Figure 33. Building 818: Air Compressor Building.

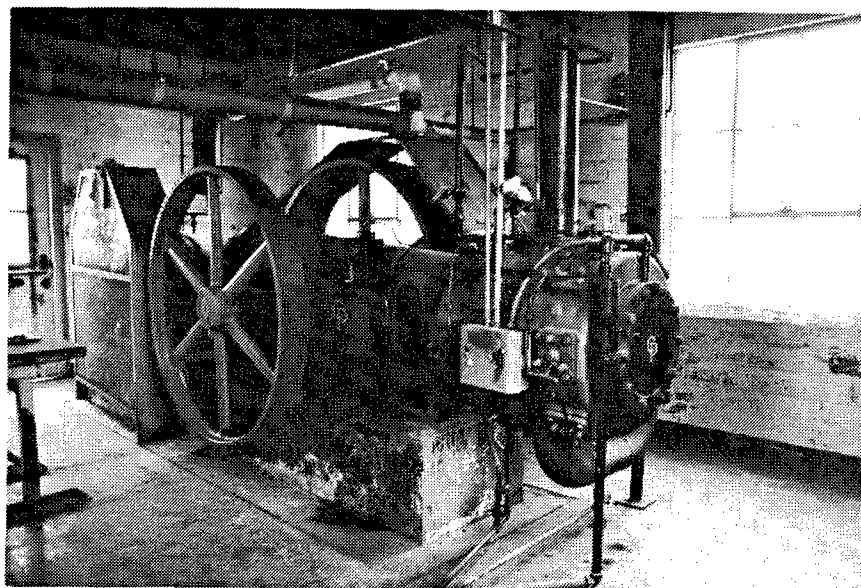


Figure 34. Building 818: Chicago Pneumatic air compressor.

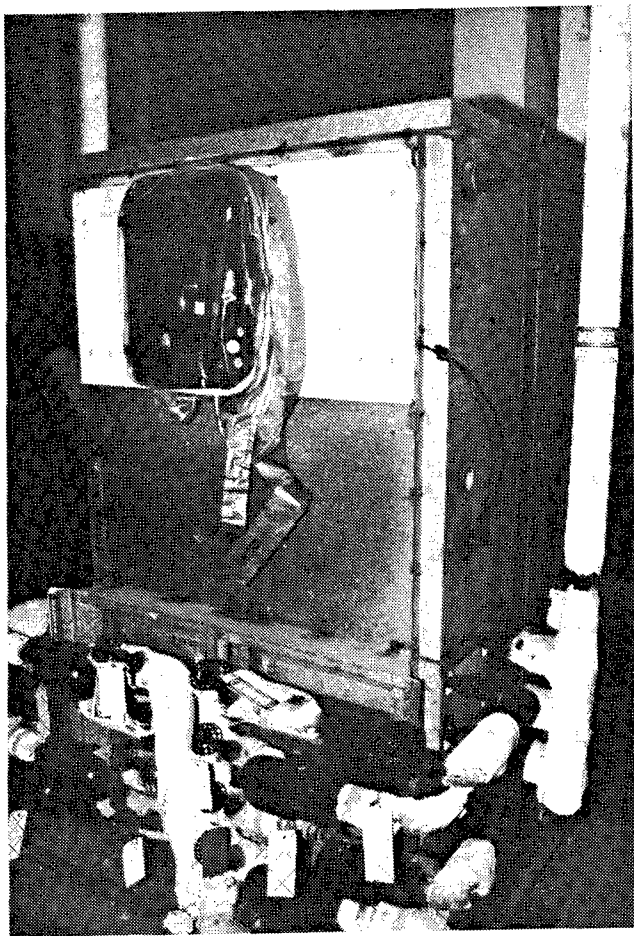


Figure 35. Building 841: Interior view of the Primer Dry House showing a Carrier drier oven for loaded primers manufactured in 1942.

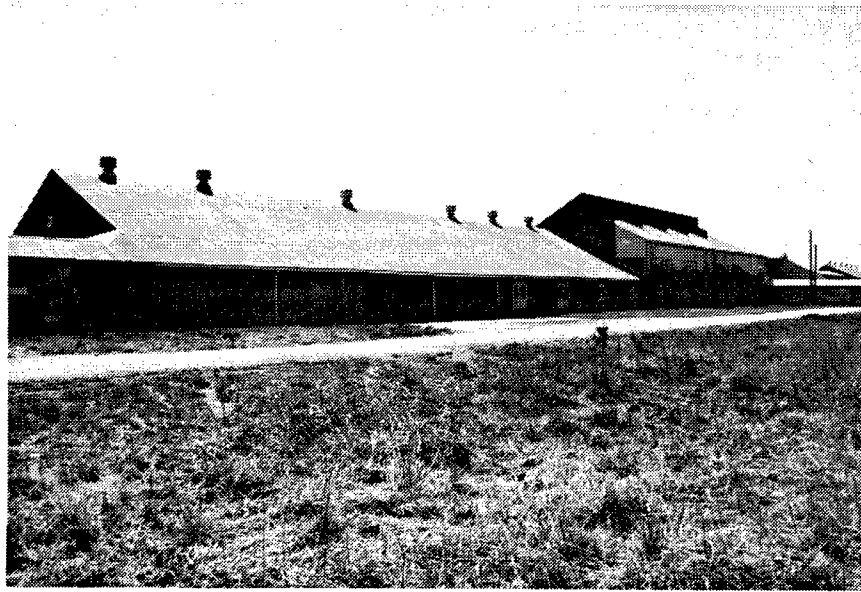


Figure 36. Building 910: Propellant Charge Building which has recently served as a Rework Building.

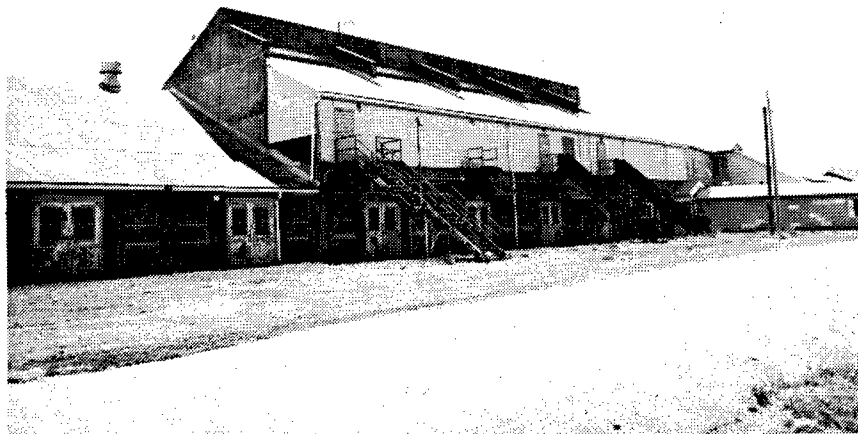


Figure 37. Building 910: Second view of the Propellant Charge Building (west end).

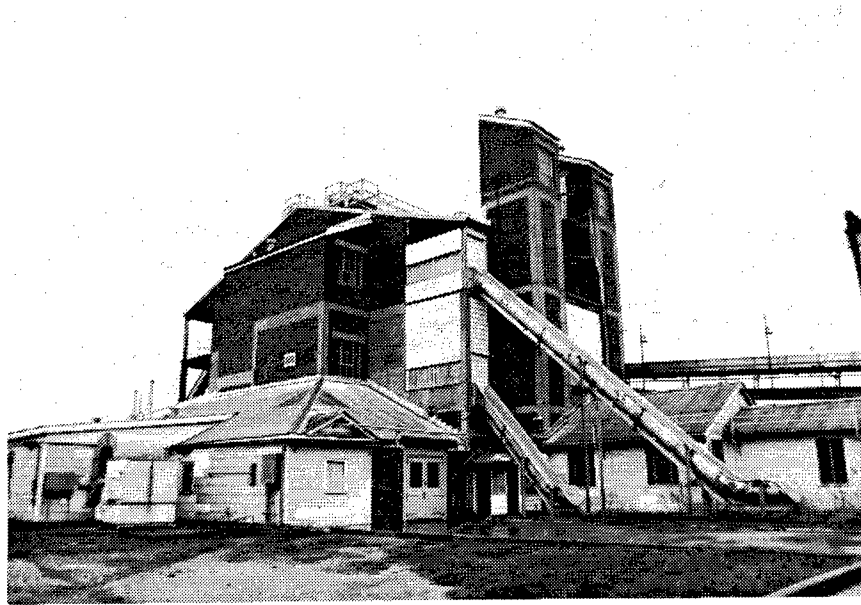


Figure 38. Building 1006: Metal Loading Building located on the 1000 Line where 105 millimeter ammunition was produced.

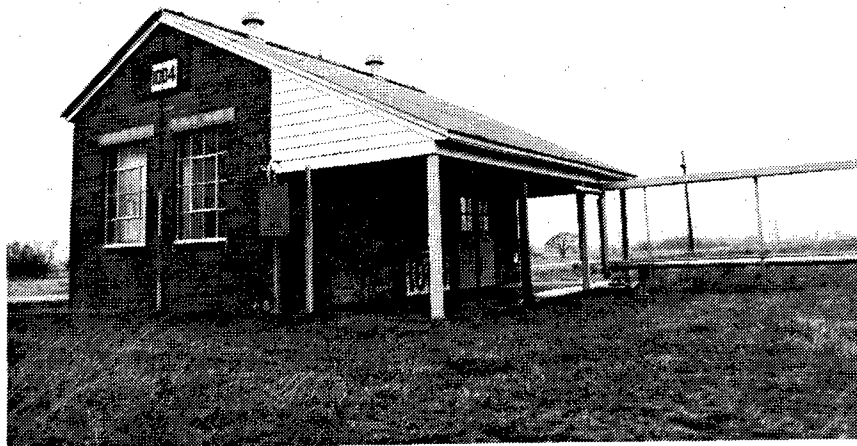


Figure 39. Building 1004: Oil and Paint Building.



Figure 40. Building 1010: Booster House.

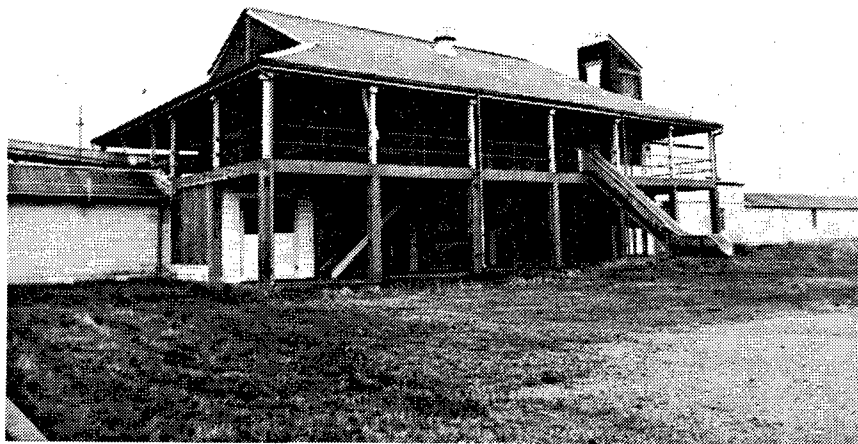


Figure 41. Building 1017: Screening Building.



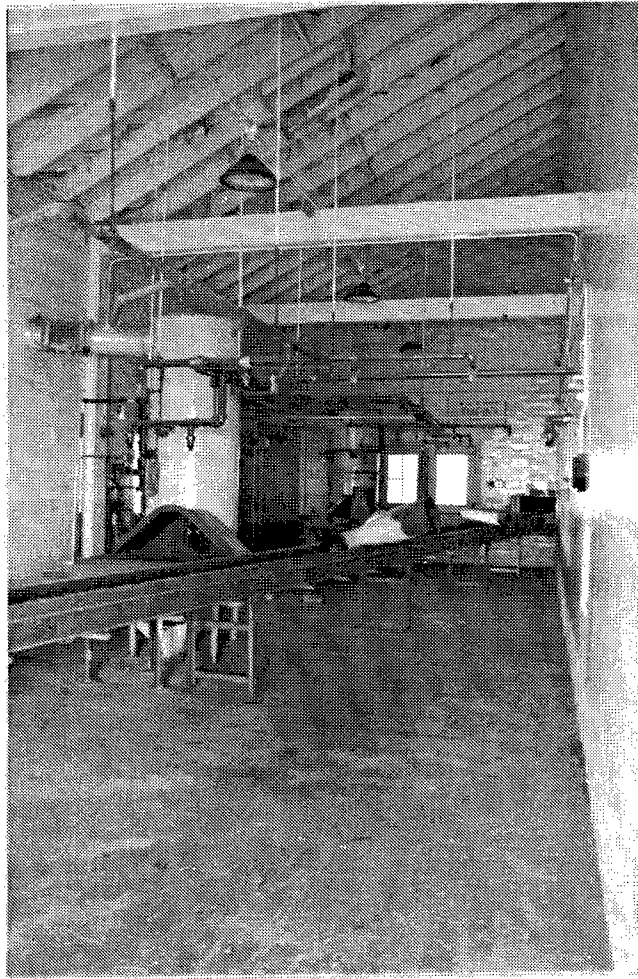


Figure 42. Building 1017: Dust Collector and Conveyor for propellant on the second level of this building.



Figure 43. Building 1020: T.N.T. Screen House.



Figure 44. Building 1095: Vacuum House responsible for the collection of loose powder within the line. There are numerous vacuum houses of varying design throughout the 1000 line.

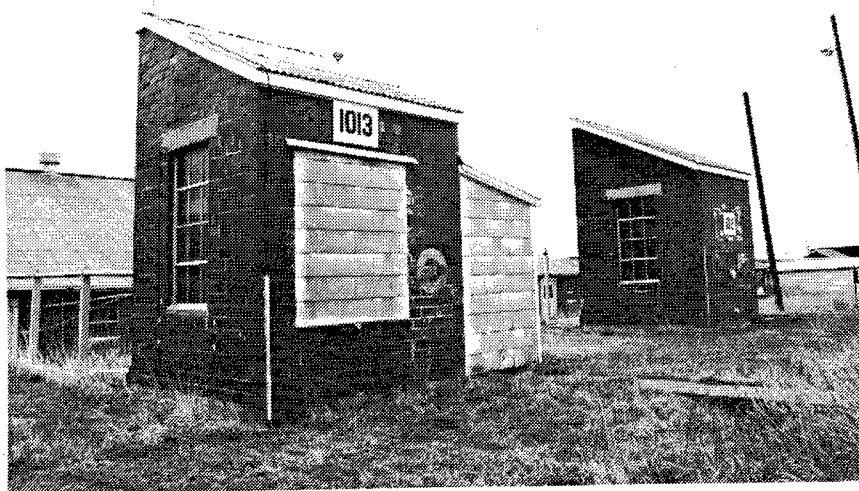


Figure 45. Building 1013 and Building 1012: Vacuum Pump Houses.



Figure 46. Building 1023 and Building 1022: Vacuum Pump Houses.



Figure 47. Building 1071 and Building 1096: Vacuum Houses.

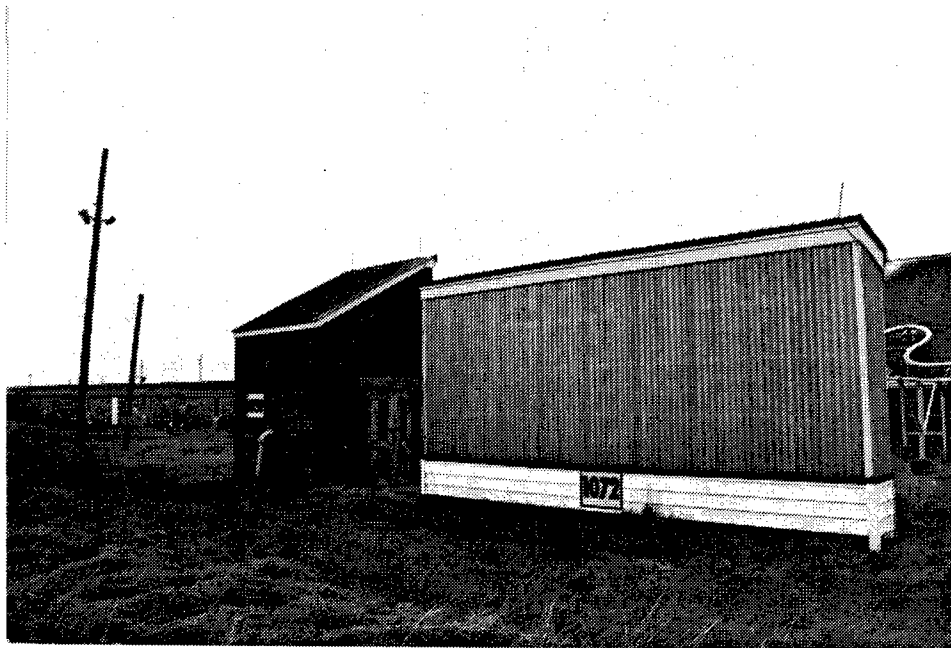


Figure 48. Building 1072 and Building 1090: Vacuum Houses.



Figure 49. Building 1019: Cooling Building.



Figure 50. Building 1078: Wash House of the Medium Caliber Loading Buildings.

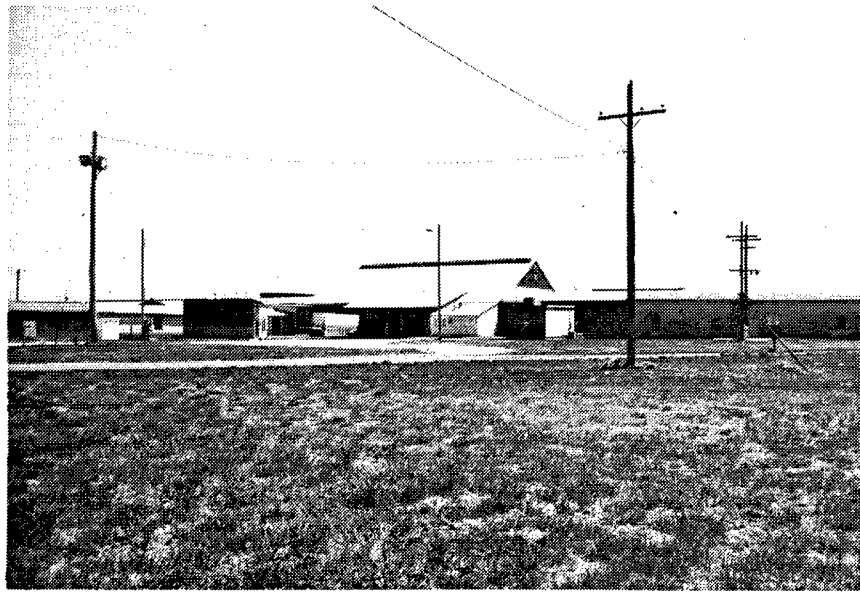


Figure 51. Building 1113: Cooling Building located on the 1100 Line that was responsible for the production of bombs during World War II.

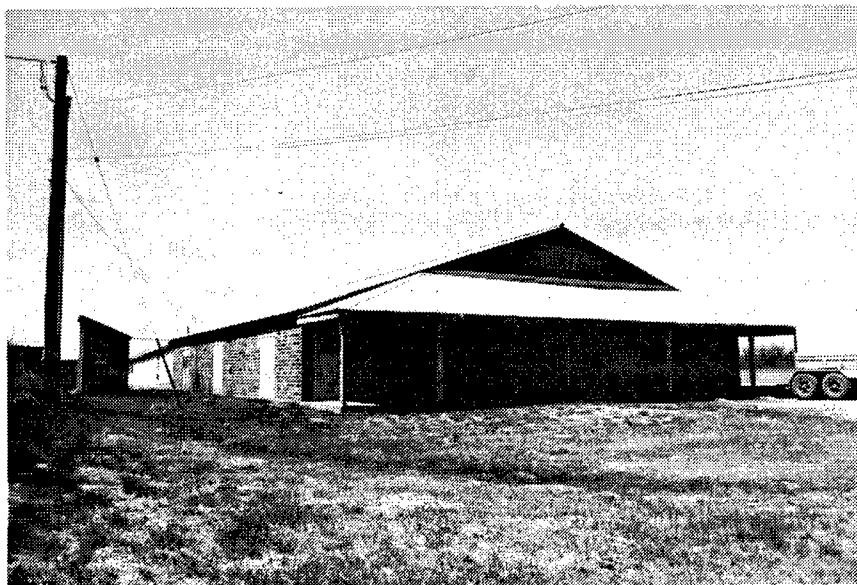


Figure 52. Building 1147: Cooling Building. This facility's original function may have been different.



Figure 53. Building 1145: This building was recently used as a Drilling Building; however, the original function of this Metal Parts Loading Building is not known.



Figure 54. Building 1205: Coal Boiler House located on the 1200 Line that served as the Ammonium Nitrate Plant Modifier.

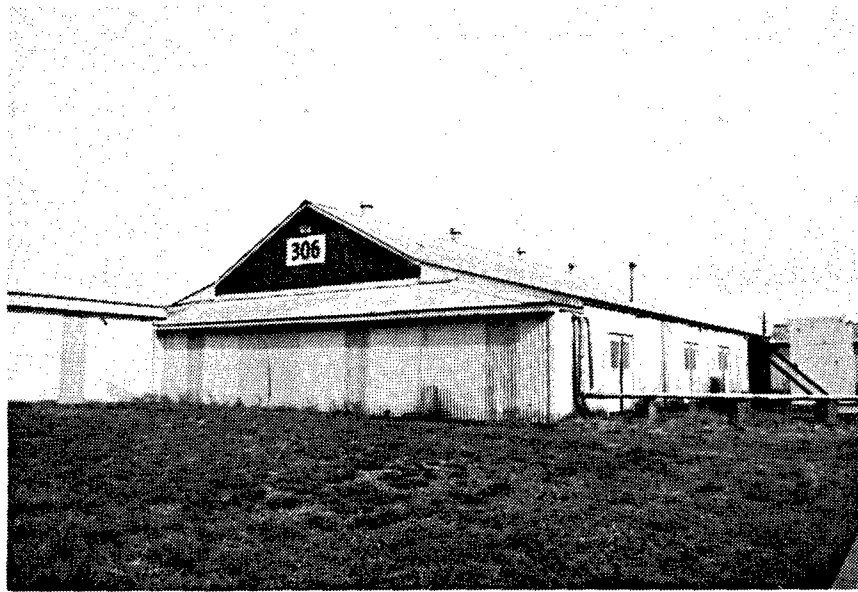


Figure 55. Building 306: Major Caliber Building for explosives located on the 300 Line that was responsible for fuze loading during World War II.

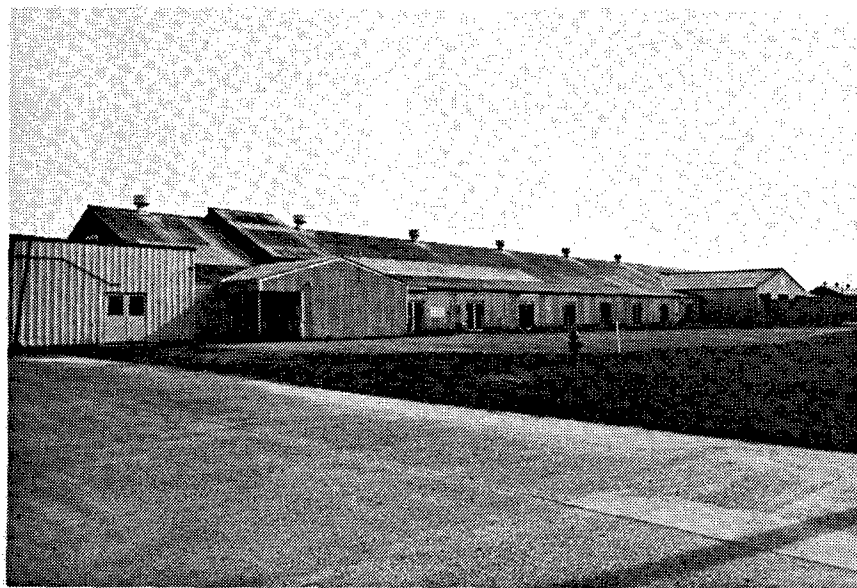


Figure 56. Building 315: Assembly Building.



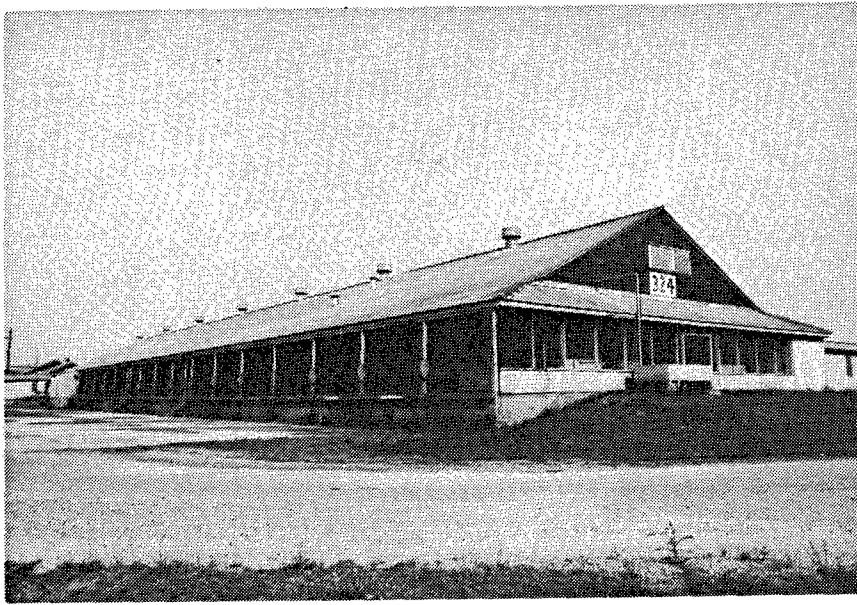


Figure 57. Building 324: Assembly Building.



Figure 58. Building 326: This Major Caliber Building functioned as a service building.

## **SUPPORT FACILITIES FOR MANUFACTURING**



Figure 59. Building 57: Administration Quality Facility where ammunition was tested.

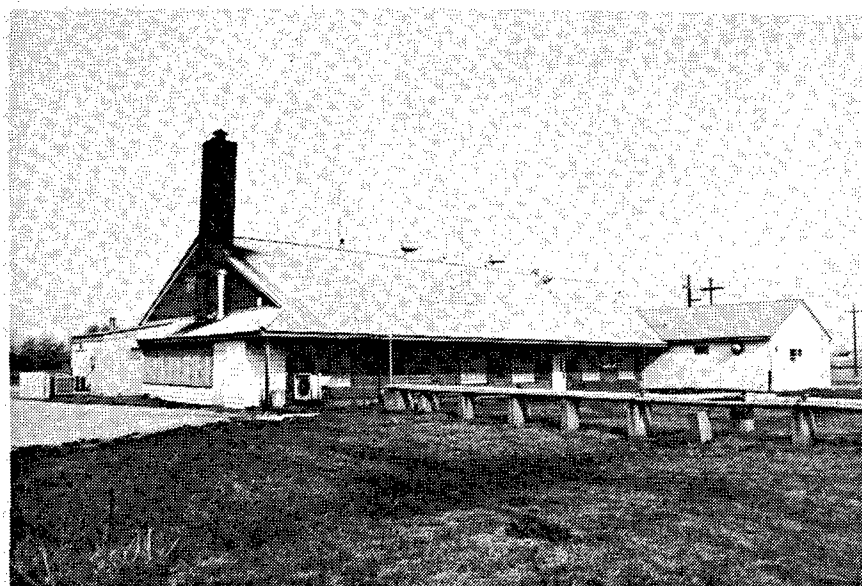


Figure 60. Building 58: Metrology and Chemical Laboratory.



Figure 61. Building 112: Laundry Building.



Figure 62. Building 202: Vehicle Maintenance Shop/Garage for the General Purpose Administration Building.



Figure 63. Building 203: General Purpose Administration/Maintenance Shop.



Figure 64. Building 203: Maintenance Shop portion of the General Purpose Administration Building.

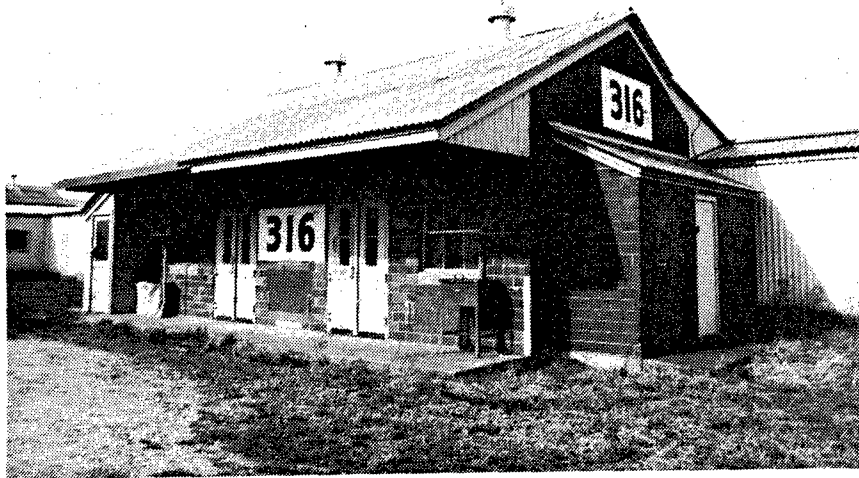


Figure 65. Building 316: Electrical Shop and Inert Storage Building.

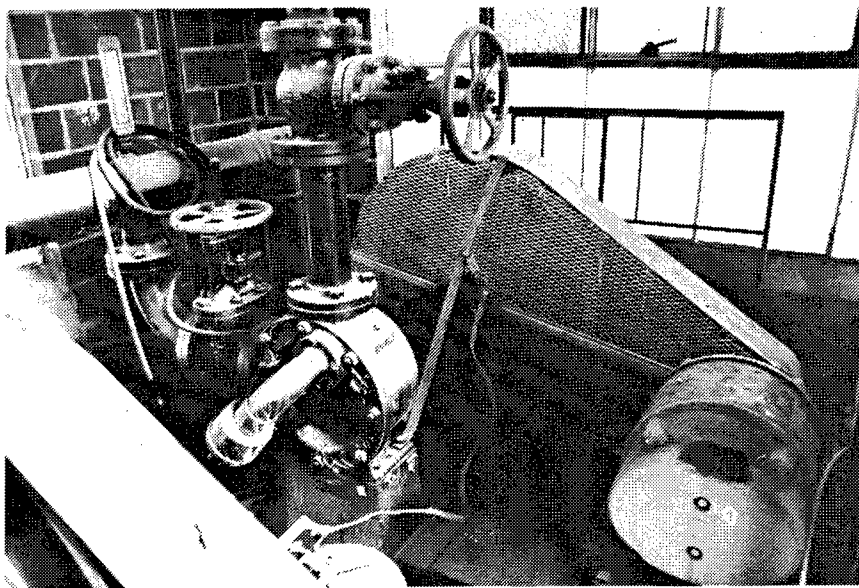


Figure 66. Building 210: Oil Pump House associated with a Boiler House.

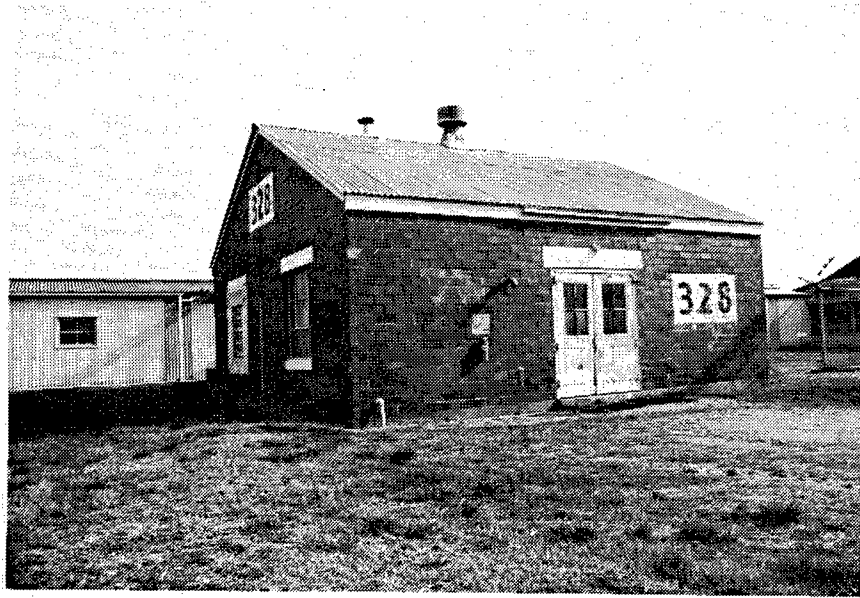


Figure 67. Building 328: Compressed Air Building.

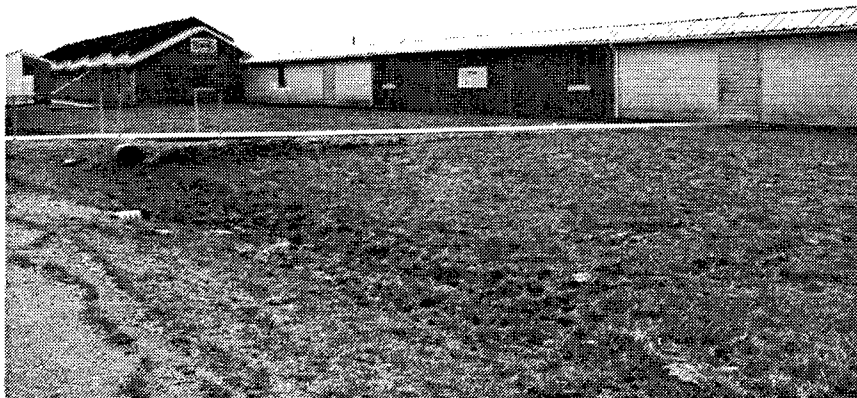


Figure 68. Between Building 504 and Building 507: This photo depicts a fire break in a covered walkway/transport way.

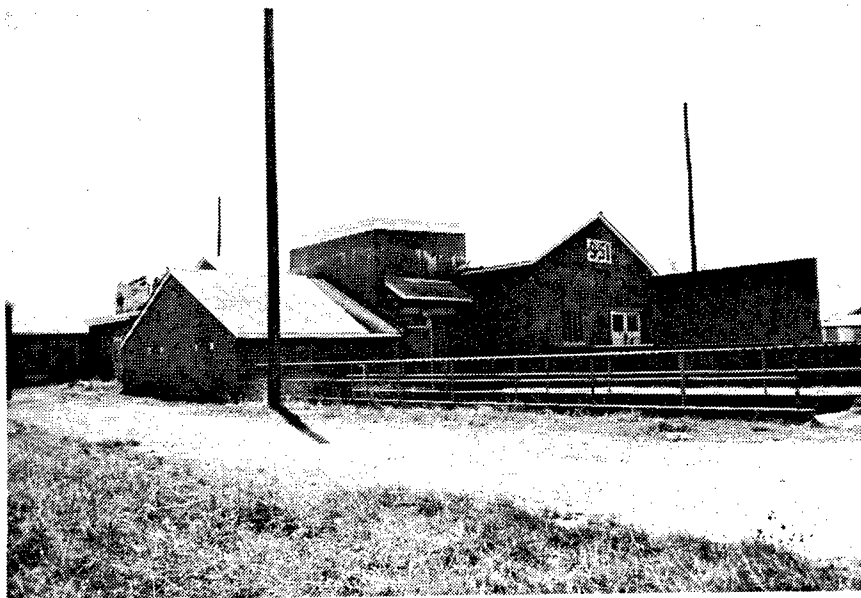


Figure 69. Building 951: X-Ray Building.

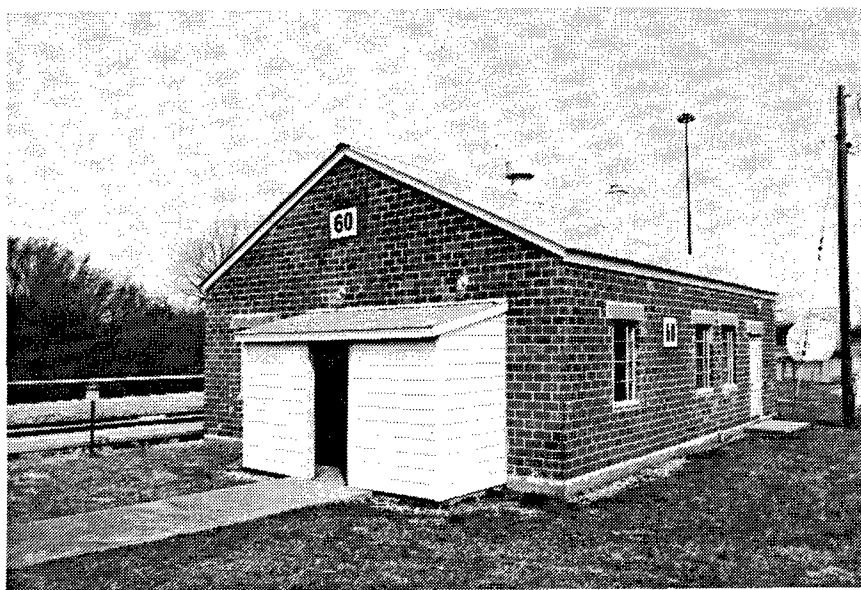


Figure 70. Building 60: Railroad Scale House.



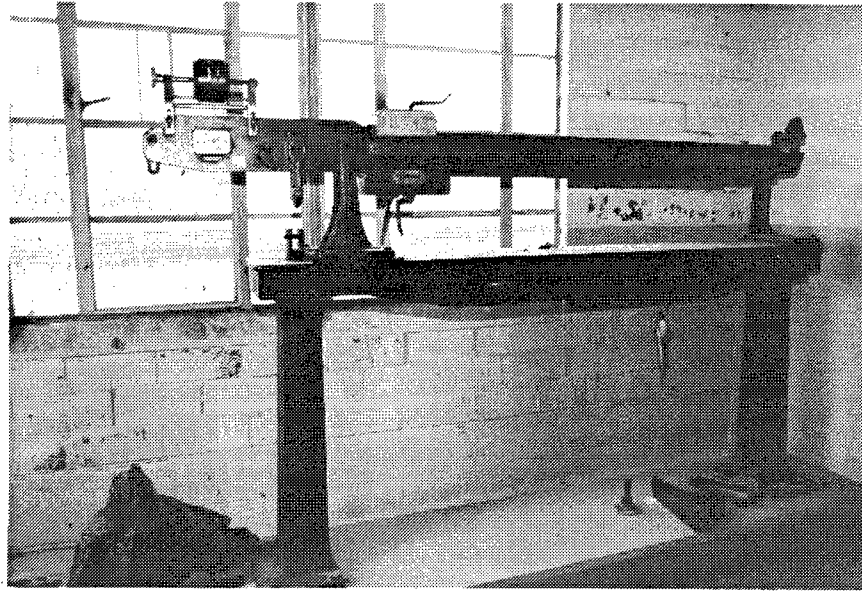


Figure 71. Building 60: Rutland Vermont Howe Scale at this Railroad Scale House.

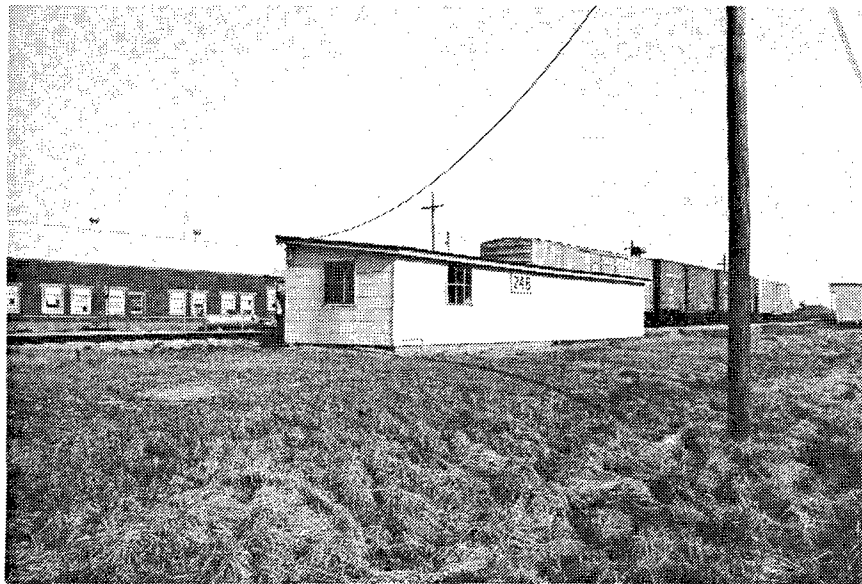


Figure 72. Building 246: Railroad Maintenance Building.

## **SHIPPING AND STORAGE FACILITIES**

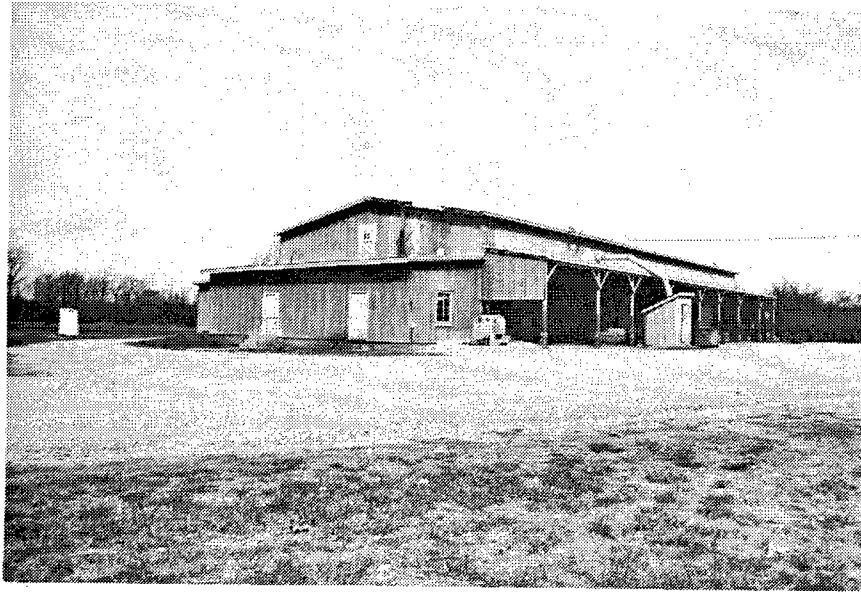


Figure 73. Building 80: General Storehouse.



Figure 74. Building 252: Lumber and Pipe Shed.

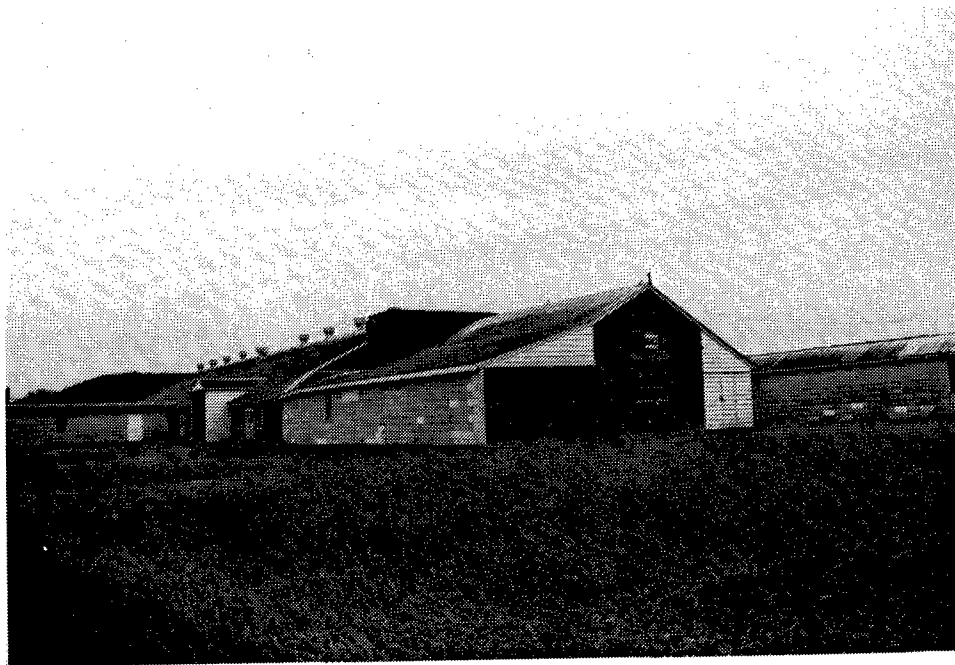


Figure 75. Building 1047: Storage Shed.



Figure 76. Building 1003: General Purpose Warehouse - Process Storage.

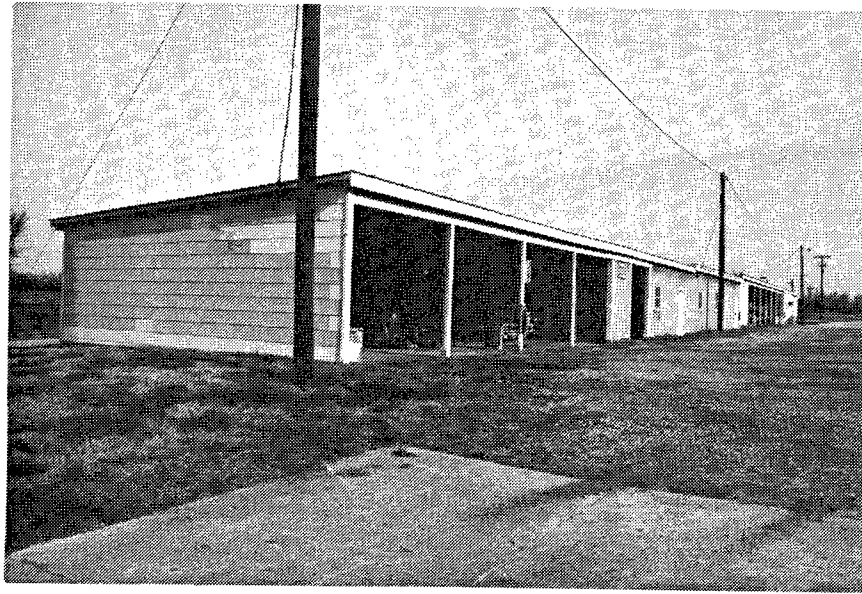


Figure 77. Building 221: General Purpose Warehouse.

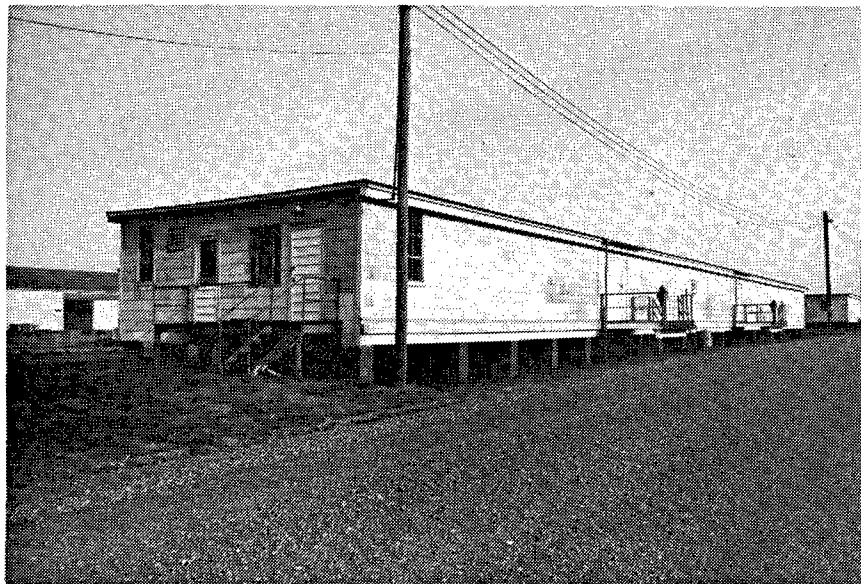


Figure 78. Building 211: General Purpose Warehouse.

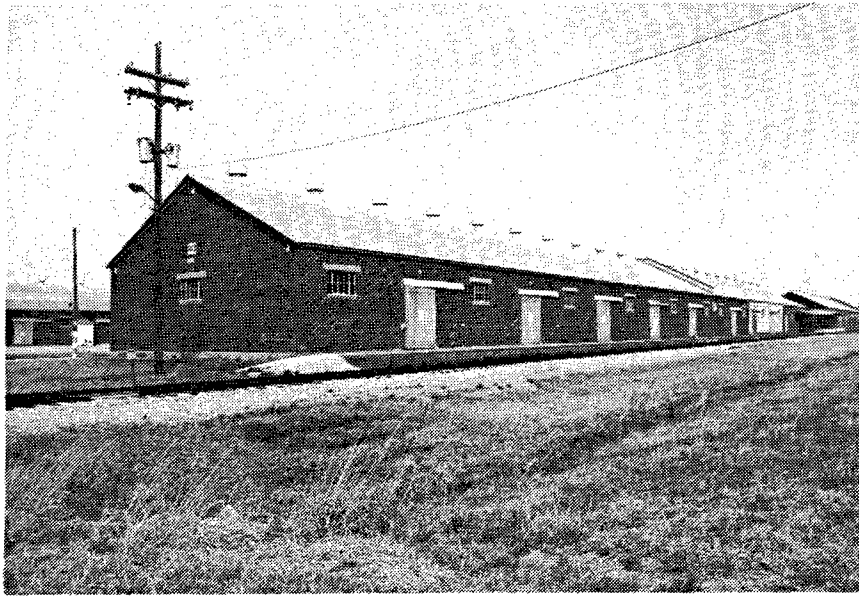


Figure 79. Building 1412: Inert Storage House: General Purpose Warehouse.

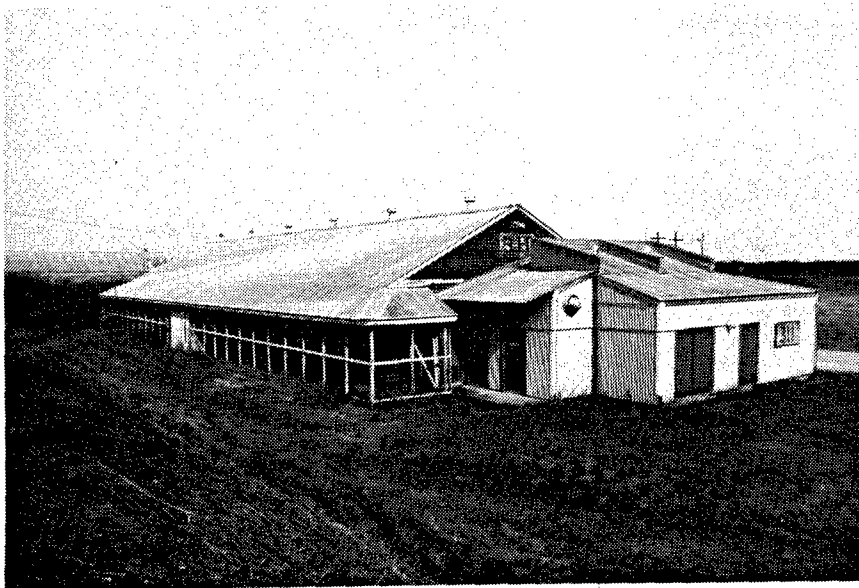


Figure 80. Building 311: Ready Magazine. Note the fire walls and earthen berm.



Figure 81. Building 502: Service Magazine with barricade (Building 525). Powder entered Kansas Army Ammunition Plant lines at facilities such as this one.



Figure 82. Building 1826: Finished Ammunition Magazine.

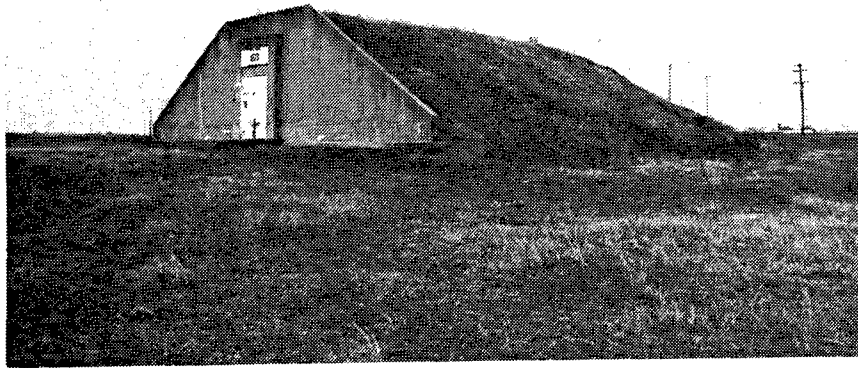


Figure 83. Building 1620: Storage Igloo.



Figure 84. Building 1005: Process Storage Building with earthen berm that was built to compensate for the close proximity between it and other buildings on the line.





Figure 85. Building 1206: Neutral Liquor Storage.

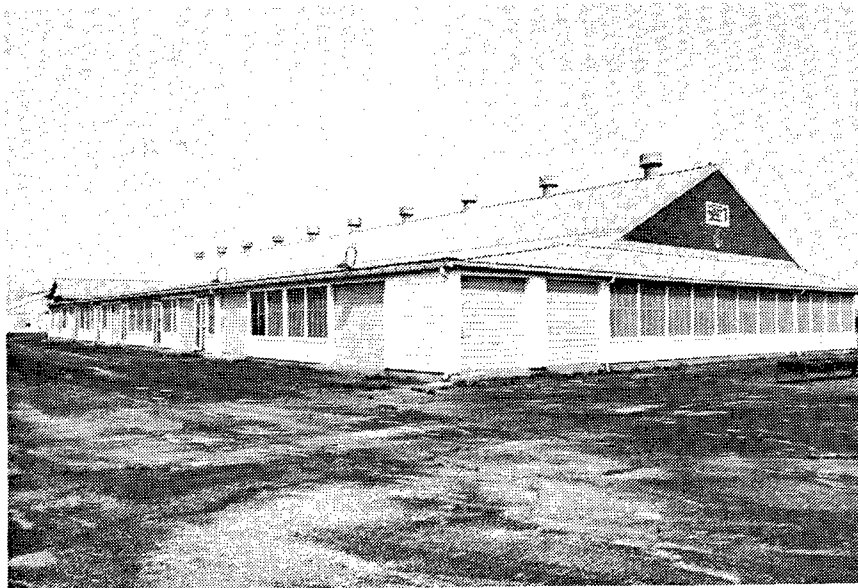


Figure 86. Building 507: Assembly, Pack, and Ship Building.



Figure 87. Building 723: Final Inspection, Packing, and Shipping Building.

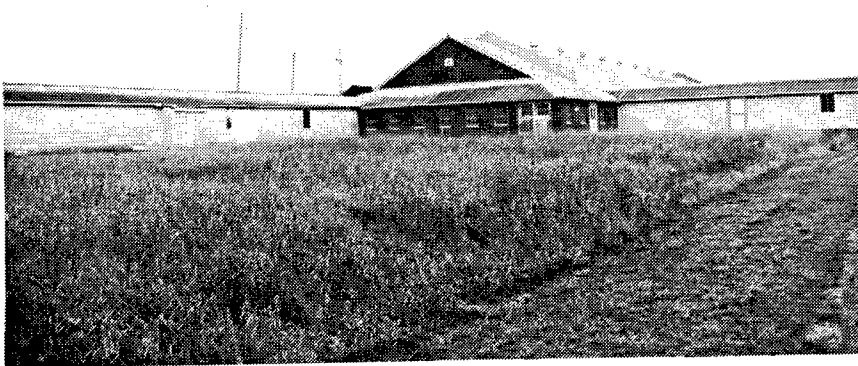


Figure 88. Building 1011: Drill Booster and Shipping Building.

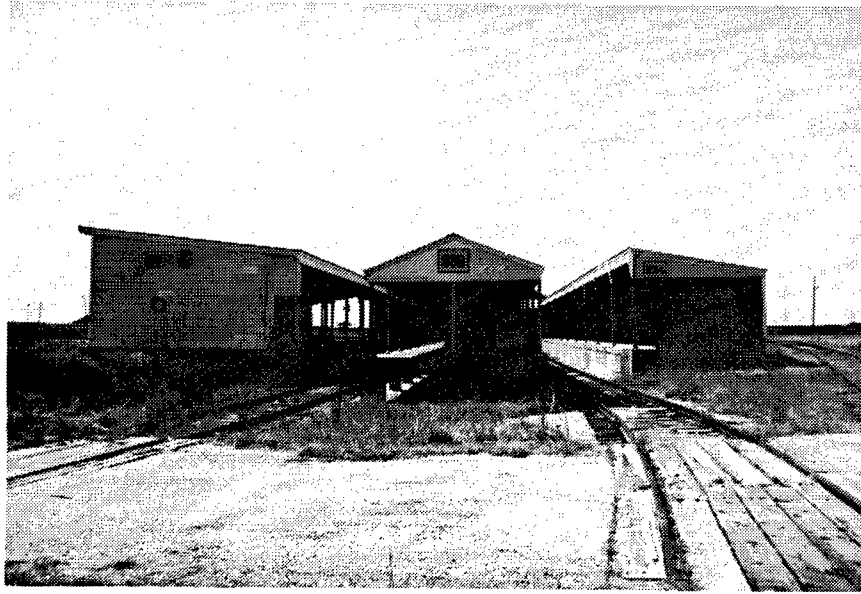


Figure 89. Buildings 932, 933, and 934: Loading docks with conveyor.

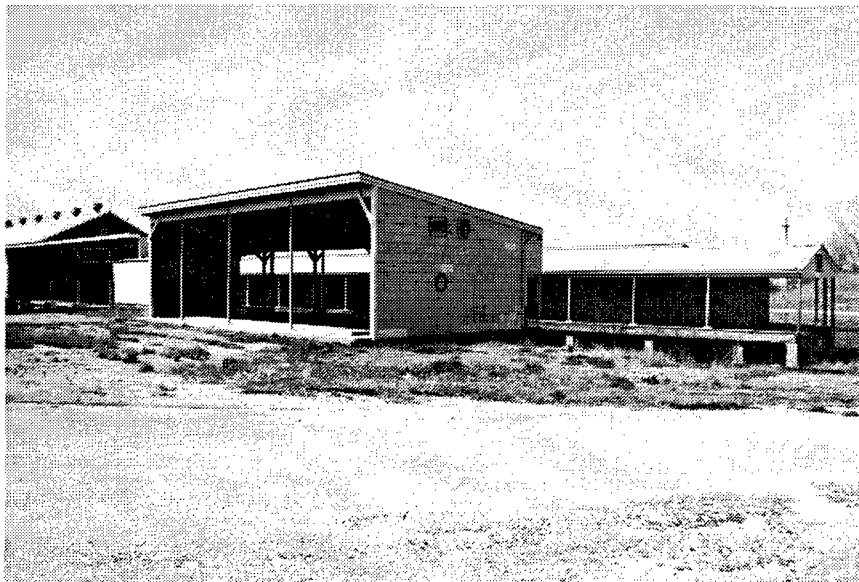


Figure 90. Building 934: Rail loading dock with semi-truck dock.

## **SUPPORT FACILITIES FOR EMPLOYEES**

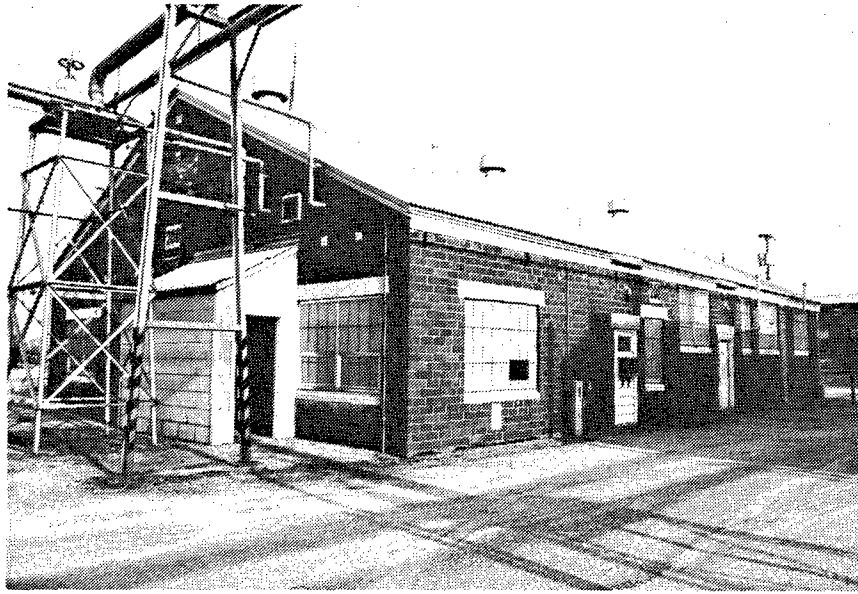


Figure 91. Building 208: Change House and Engineering Building in the 200 Area where employees changed into and out of work clothes.



Figure 92. Building 325: Change House typical of Change Houses on every production line at Kansas Army Ammunition Plant with the exception of the 1200 line.

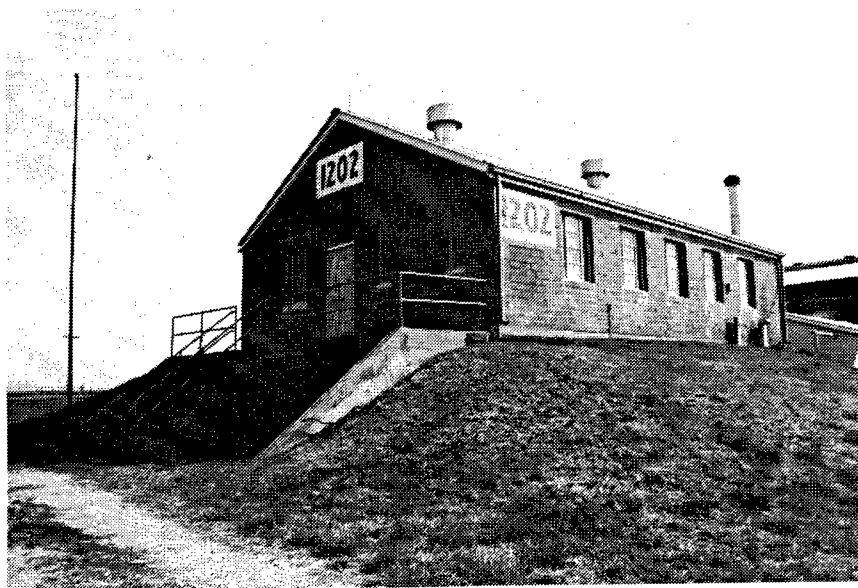


Figure 93. Building 1202: Change House in which the design differs from those on other lines.

## **UTILITIES AND INFRASTRUCTURE**



Figure 94. Building 15: Sentry Station at Gate #3 at the Plant's North Entrance.



Figure 95. Building 52: Fire House.



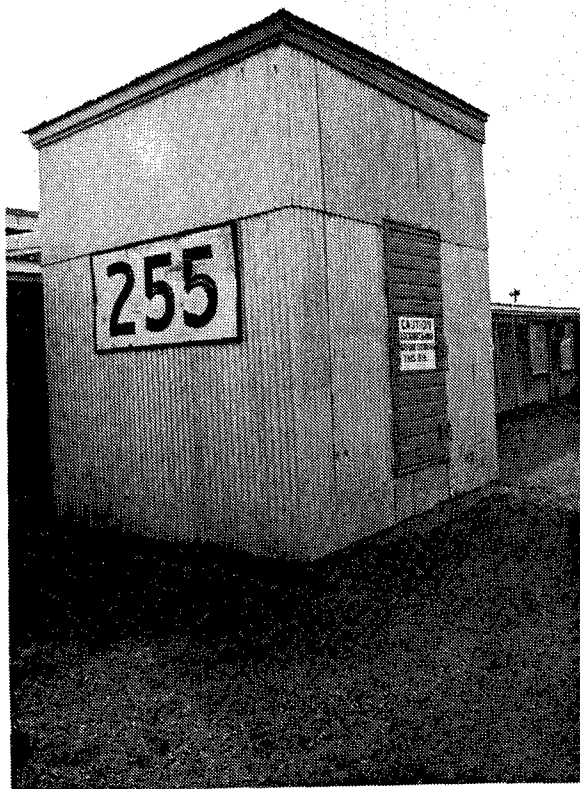


Figure 96. Building 255: Refuse Collection Building.



Figure 97. Building 209: Boiler House or Coal Generated Heating Building.

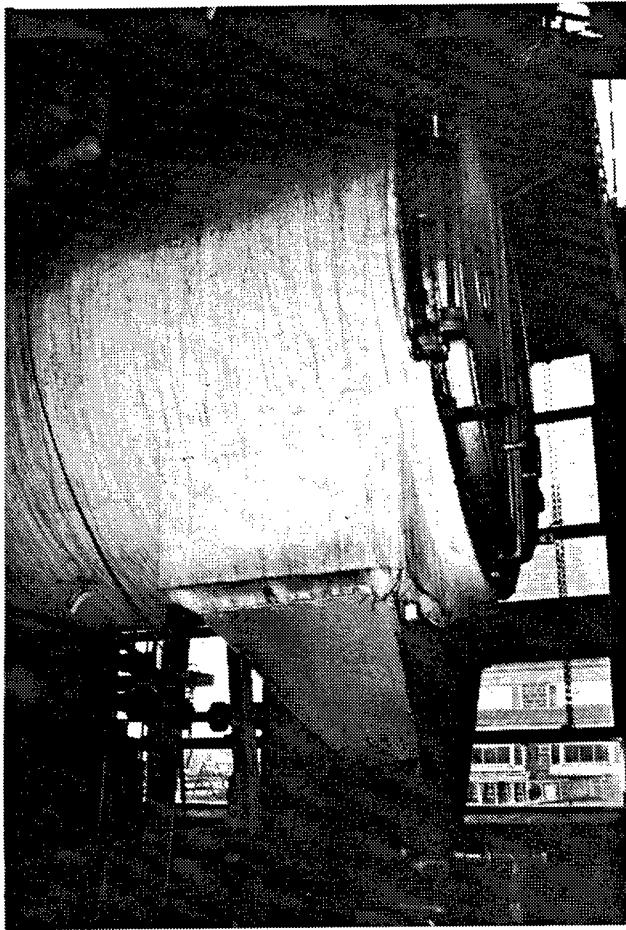


Figure 98. Building 209: A boiler in the Coal Generated Heating Building.



Figure 99. Building 210: Pump Station Building.

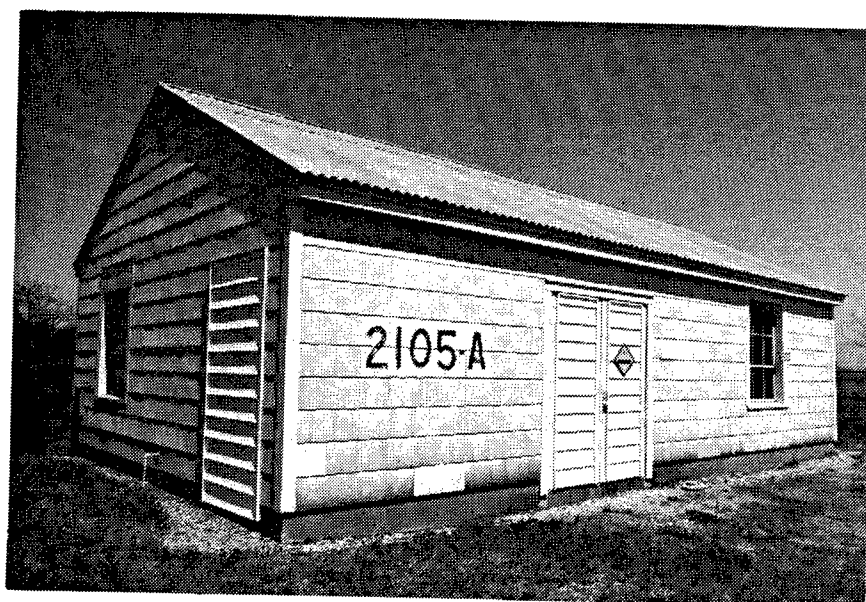


Figure 100. Building 2105A: Stone Quarry Pump House where water is pumped to and distributed by this centralized facility.

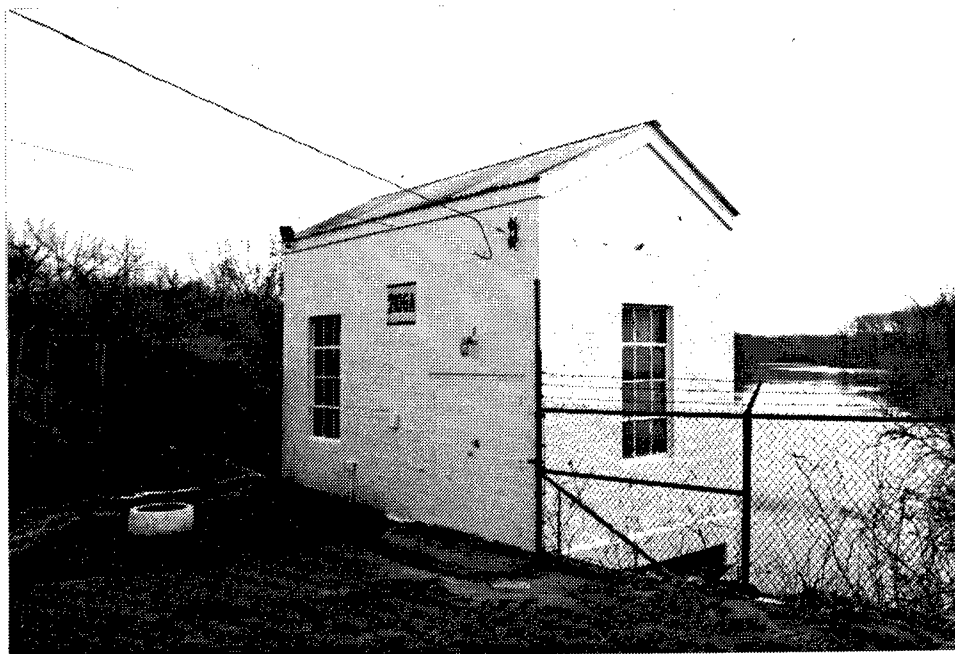


Figure 101. Building 2106A: Pump Station with low lift where the Plant's water is pumped from the river.

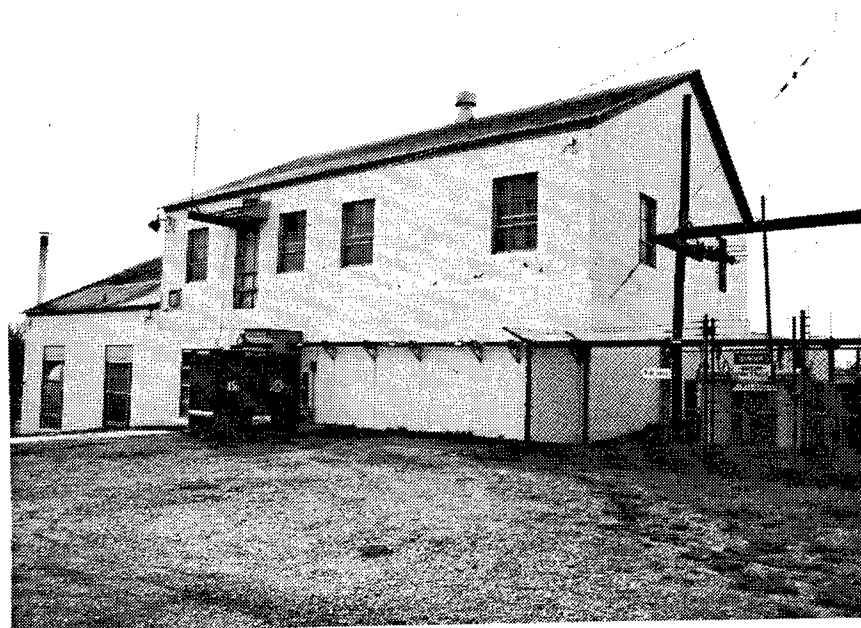


Figure 102. Building 2106: Water Treatment Plant, still utilized by the plant and a few local interests.

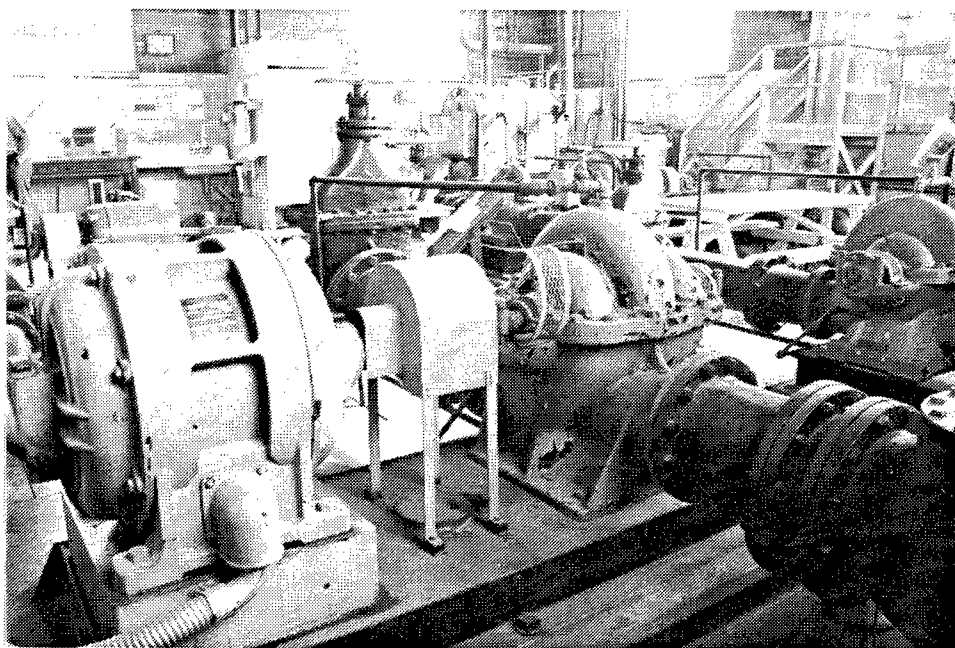


Figure 103. Building 2106: Raw water pump and motor.

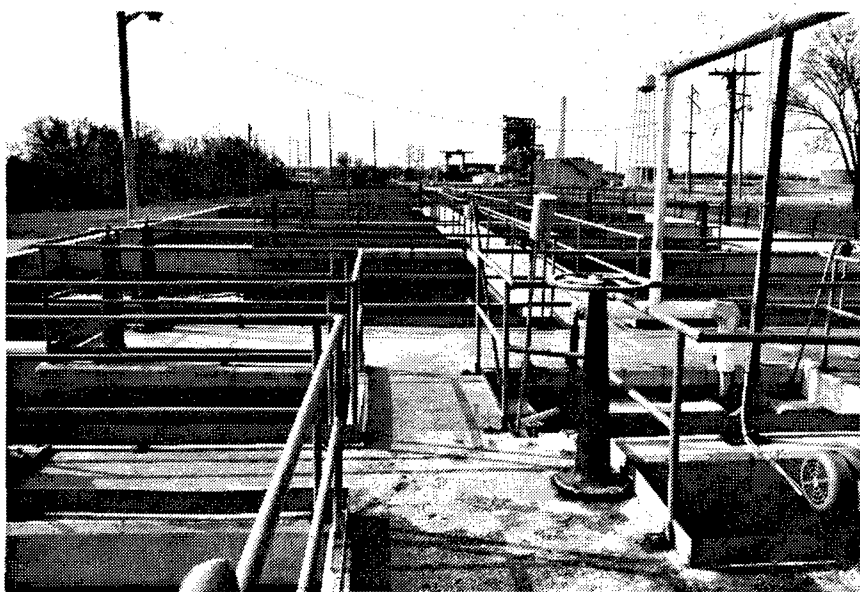


Figure 104. Building 2106: Settling Basin where sediment in the water is allowed to separate from and settle to the bottom of the basin.

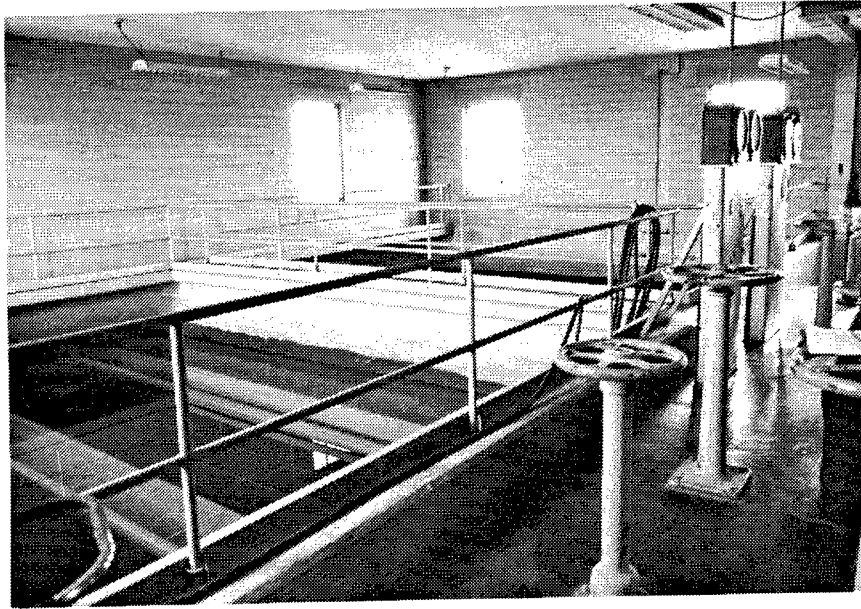


Figure 105. Building 2106: A sand filter where the sediment separating process is furthered.

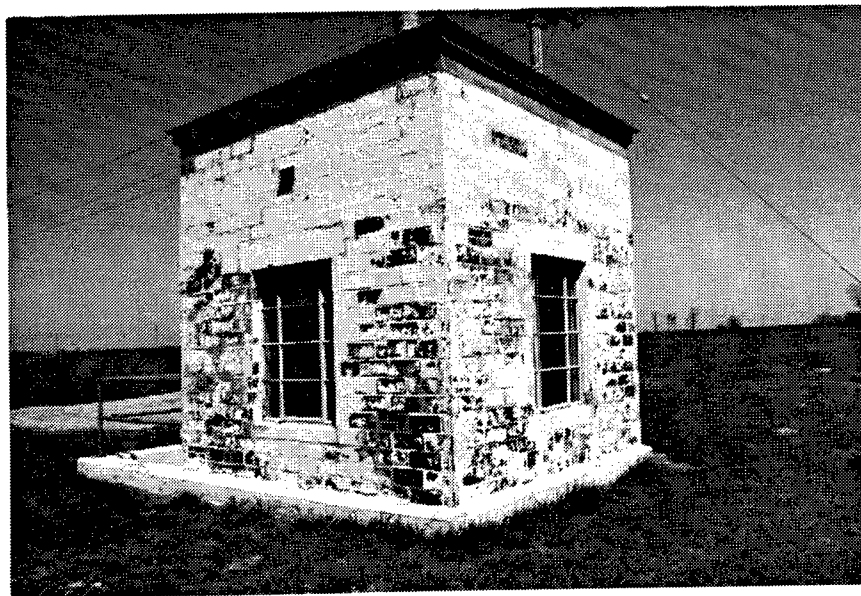


Figure 106. Building Number no longer known: Water Pump House which, at one time, supplied buildings in its general locale.

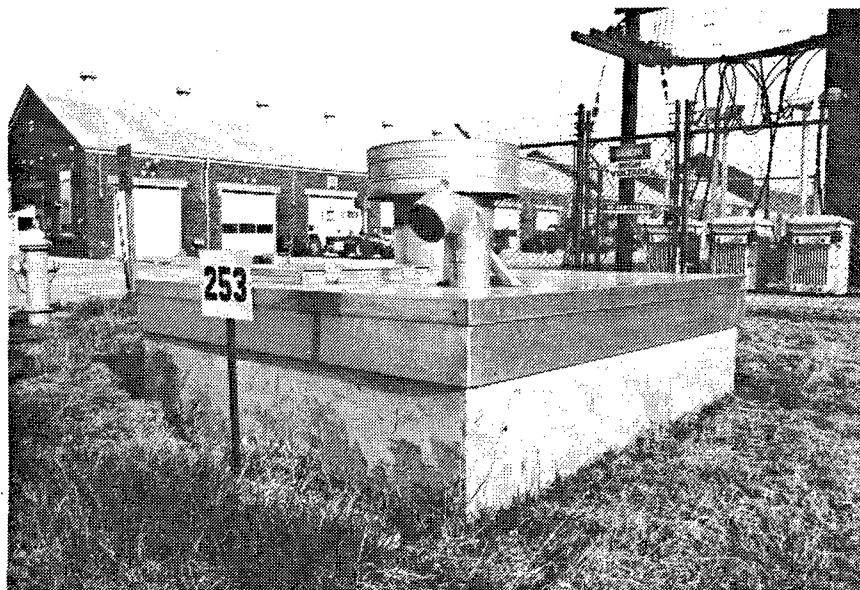


Figure 107. Building 253: Sewage Station where this covered pit serves as a Pump House.

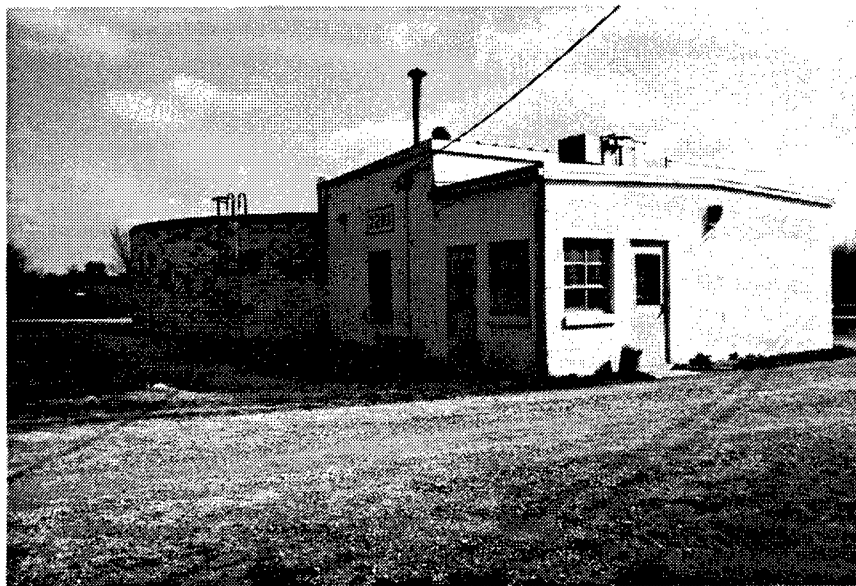


Figure 108. Building 2211 and Building 2203: Digester Tank (Building 2211) is on the left, and Sewage Treatment Plant is on the right.





Figure 109. Building 2203: Sewage Sprinkler Filters.

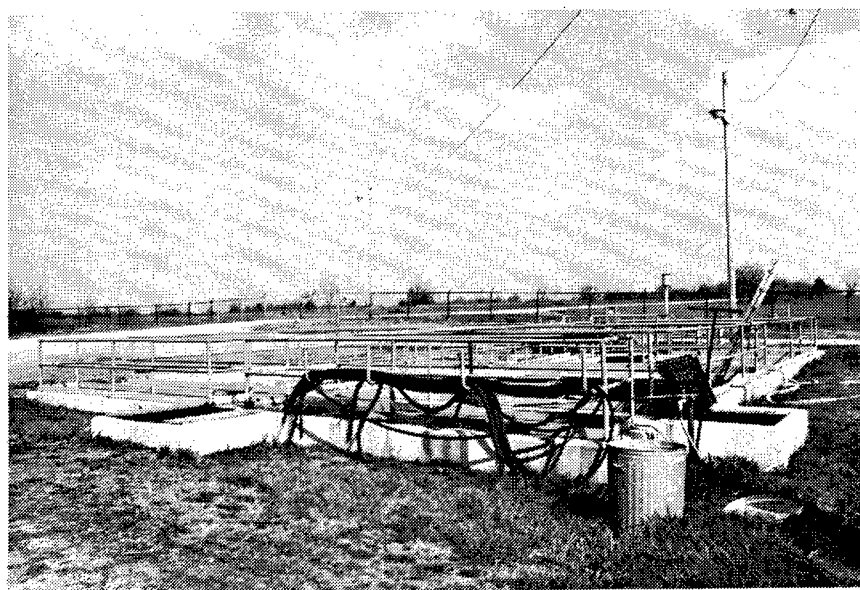


Figure 110. Building 2203: West side of the Sewage Settling Basins.

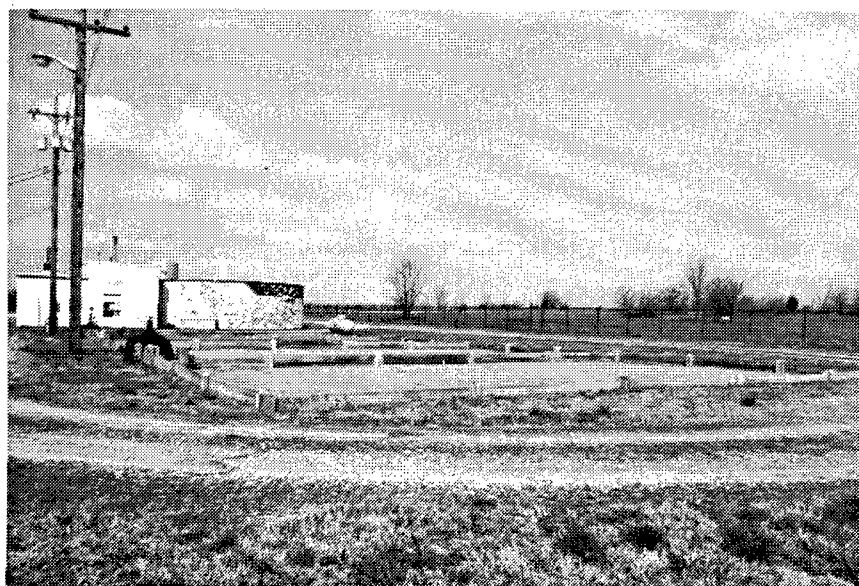


Figure 111. Building 2203: East side of the Sewage Drying Beds.

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- 1984 *Historic Properties Report: Kansas Army Ammunition Plant, Parsons, Kansas.* Document prepared by the Historic American Buildings Survey/Historic American Engineering Record, National Park Service, and the U.S. Department of the Interior.

Thomson, H., and L. Mayo

- 1991 *United States Army in World War II: The Technical Services: The Ordnance Department Procurement and Supply.* Center for Military History, United States Army, Washington, D.C.

United States Government

- n.d. *Ordnance War Administration History Series II. The Ordnance organization in World War II.* Study Number 11. Facilities. Monograph Number 1. GOCO Facilities Directory.

# **APPENDIX A**

## **PHOTOGRAPHIC DATA SHEETS**

GEO-MARINE INC.  
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 1

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
1	15	Sentry Station at gate #3 (the north entrance to the plant); east front and south side	NW	04/04/94	Hiatt
2	52	Fire House, NW front and SW side	E	04/04/94	Hiatt
3	52	Fire House, NW front and SW side	E	04/04/94	Hiatt
4	210	Oil Pump House associated with a Boiler House		04/04/94	Hiatt
5	210	Second angle, Oil Pump House associated with a Boiler House		04/04/94	Hiatt
6	210	Pump Station Building, east front and south side	NW	04/04/94	Hiatt
7	209	Boiler House or Coal Generated Heating Building, east front and south side	NW	04/04/94	Hiatt
8	209	Boiler House: coal hopper w/conveyor. Horizontal running conveyor is modern.	NW	04/04/94	Hiatt
9	209	Boiler in the Boiler Building		04/04/94	Hiatt
10	209	Boiler body in the Boiler House		04/04/94	Hiatt
11	209	Feed end of boiler in the Boiler House		04/04/94	Hiatt
12	211	General Purpose Warehouse, east and south sides	NW	04/04/94	Hiatt
13	202	General Purpose Administration Building, north front and east side	SW	04/04/94	Hiatt
14	207	General Purpose Administration Building, north front and east side	SW	04/04/94	Hiatt
15	208	Change House and Engineering Building for the 200 area, east and south sides	NW	04/04/94	Hiatt
16	203	General Purpose Administration/Maintenance shop, north and east sides	SW	04/04/94	Hiatt
17	203	General Purpose Administration/Maintenance Shop, north and east sides	SW	04/04/94	Hiatt
18	221	General Purpose Warehouse, east and north sides	SW	04/04/94	Hiatt
19	202	Second angle of the Vehicle Maintenance Shop/Garage for the General Purpose Administration Building, east and	SW	04/04/94	Hiatt

GEO-MARINE INC.  
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 1

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
		north sides			
20	203	Maintenance Shop portion of the General Purpose Administration Building, east and south sides	NW	04/04/94	Hiatt
21	246	Railroad Maintenance building, east and south sides	NW	04/04/94	Hiatt
22	253	Covered pit serving as a pump house at the sewage station, east and south sides	NW	04/04/94	Hiatt
23	252	Lumber and Pipe Shed, east and south sides	NW	04/04/94	Hiatt
24	252	Lumber and Pipe Shed, east and south sides	NW	04/04/94	Hiatt
25	322	General Purpose Administration Building, west front and south side	NE	04/04/94	Hiatt
26	325	Change House, east front and south side	NW	04/04/94	Hiatt
27	325	Second angle, Change House, east and north sides	SW	04/04/94	Hiatt
28	328	Compressed Air building, south front and west side	NE	04/04/94	Hiatt
29	315	Assembly Building with new extension to west, (picture not inclusive), south side	NE	04/04/94	Hiatt
30	326	Major Caliber Building which functioned as a service building, north and west sides	SE	04/04/94	Hiatt
31	311	Ready Magazine with firewalls and earthen berm, east and south sides	NW	04/04/94	Hiatt
32	311	Second angle, Ready magazine with firewalls and earthen berm		04/04/94	Hiatt
33	316	Electric Shop and Inert Storage Building, east and south sides	NW	04/04/94	Hiatt
34	306	Major Caliber Building for explosives on the 300 line which was responsible for fuze loading during WWII, north and front side	S	04/04/94	Hiatt
35	324	Assembly Building, east and south sides	NW	04/04/94	Hiatt
36	312 & 325	Overview of two Change Houses	SW	04/04/94	Hiatt

Page: 3

GEO-MARINE INC.  
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 1

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Exp.

No.	Building No(s).	Description	Dir.	Date	Recorder
37	58	Metrology and Chemical Laboratory, east and south sides	NW	04/04/94	Hiatt

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GEO-MARINE INC.  
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 2

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
2	57	Administration Quality Facility where ammunition was tested, east and south sides	NW	04/04/94	Hiatt
3	255	Refuse Collection building, north and west sides	SE	04/04/94	Hiatt
4	515	Air Compressor building, east and south sides	NW	04/04/94	Hiatt
5	509	Boiler House/Oil Heating building: oil heated boiler		04/04/94	Hiatt
6	509	Oil Heating building/Boiler House: Oil service pump (rear) and oil feed pump (front) with General Electric motor		04/04/94	Hiatt
7	509	Boiler House/Oil Heating Building: Close-up of oil service pump & oil feed pump motor		04/04/94	Hiatt
8	509	Oil Heating Building/Boiler House: Oil heated boiler		04/04/94	Hiatt
9	509	Boiler House/Oil Heating Building: Plumbing and motor for de-aired water		04/04/94	Hiatt
10	509	Oil Heating Building or Boiler House, east and south sides	NW	04/04/94	Hiatt
11	502 & 525	Service Magazine (#502) with barricade (#525), south side	N	04/04/94	Hiatt
12	503	Ramp to Screen House	E	04/04/94	Hiatt
13	503	Screen House of the metal parts and loading building series located on the booster and supplementary charge line, north and west sides	SE	04/04/94	Hiatt
14	504 & 507	Fire break in covered walkway between 504 & 507, north side	E	04/04/94	Hiatt
15	540	Vacuum building, south and west sides	NE	04/04/94	Hiatt
16	505	Tetryl Pelleting building, east and north sides	SW	04/04/94	Hiatt
17	507	Assembly Pack and Shipping building, east and south sides	NW	04/04/94	Hiatt
18	513	Metal Parts Loading Building where boosters and other charges were assembled, packed and shipped out, east and north sides	SW	04/04/94	Hiatt



GEO-MARINE INC.  
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 2

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
19	513	Metal Parts Loading Building, east and north sides	SW	04/04/94	Hiatt
20	60	Railroad Scale House for weighing railroad cars and their contents, east and south sides	NW	04/04/94	Hiatt
21	1412	Inert Storage Warehouse/General Purpose Warehouse, east and south sides	NW	04/04/94	Hiatt
22	53	General Administration Building		04/04/94	Hiatt
23	80	General Storehouse, east and south sides	NW	04/04/94	Hiatt
24	818	Air Compressor Building: Chicago Pneumatic Air Compressor (#62736)		04/04/94	Hiatt
25	818	Air Compressor Building: Second angle, Chicago Pneumatic Air Compressor (#62736)		04/04/94	Hiatt
26	818	Air Compressor Building, front and east side	W	04/04/94	Hiatt
27	809	Primer Loading Building, first floor: 1942 motor driven, volumetric, Loading machine with 12 stations, rotary table, and manual clutch		04/04/94	Hiatt
28	809	Primer Loading Building: second angle of 1942 motor driven, volumetric, primer loading machine		04/04/94	Hiatt
29	809	Primer Loading Building, first and second floors: Elevator for black powder		04/04/94	Hiatt
30	809	Primer Loading Building: Interior of ramp		04/04/94	Hiatt
31	812	Primer Preparation Building: 1942 Consolidated packing machine (#62709)		04/04/94	Hiatt
32	812	Primer Preparation Building: Close-up of 1942 Consolidated packing machine (#62709)		04/04/94	Hiatt
33	812	Primer Preparation Building: Lacquering machine		04/04/94	Hiatt
34	812	Primer Preparation Building: Second angle of lacquering machine		04/04/94	Hiatt
35	812	Primer Preparation Building: Pennsylvania Pinhead machine (#65365)		04/04/94	Hiatt

GEO-MARINE INC.  
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 2

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Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
36	812	Primer Preparation Building: Second angle of Pennsylvania Pinhead machine (#65365)		04/04/94	Hiatt
37	812	Primer Preparation Building: Wash table (#65945)		04/04/94	Hiatt

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GEO-MARINE INC.  
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 3

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
1	841	Primer Dry House: 1942 Carrier dryer oven for loaded primers		04/04/94	Hiatt
2	841	Primer Dry House: second angle of carrier dryer oven for loaded primers		04/04/94	Hiatt
3	812	Primer Preparation Building, east bay: Air conditioner condensor cooling unit (#69964)		04/04/94	Hiatt
4	812	Primer Preparation Building: Air Conditioner Compressor (#69962)		04/04/94	Hiatt
5	812	Primer Preparation Building: Heater (#69972)		04/04/94	Hiatt
6	812	Primer Preparation Building, north and east sides	SW	04/04/94	Hiatt
7	841	Primer Dry House built in 1951		04/04/94	Hiatt
8	804	Black Powder Screening House: screen (#98708)		04/04/94	Hiatt
9	804	Black Powder Screening House: second angle of screen (#98708)		04/04/94	Hiatt
10	807	Fan House, north and west sides	SE	04/04/94	Hiatt
11	805	Ready Magazine, formerly a Black Powder Rest House, north and east sides	SW	04/04/94	Hiatt
12	816	Black Powder Pelleting Building, south and west sides	NE	04/04/94	Hiatt
13	809	Primer Loading Building, south front and north side		04/04/94	Hiatt
14	1620	Storage Igloo, west front and south side	NE	04/04/94	Hiatt
15	1626	Sentry House, east and south sides	NW	04/04/94	Hiatt
16	112	Laundry Building, south and west sides	NE	04/05/94	Hiatt
17	724	Oil Boiler House, south and west sides	NE	04/05/94	Hiatt
18	715	Loading Building, north and west sides	SE	04/05/94	Hiatt
19	723	Final Inspection, Packing, and Shipping Building, south and west sides	NE	04/05/94	Hiatt
20	722	Detonator Rumbling Building which recently served as a Detonator lacquering (painting) building, south and west	NE	04/05/94	Hiatt

GEO-MARINE INC.  
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 3

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
		sides			
21	722	Detonator Rumbling Building which recently served as a Detonator Lacquing Building, south and west sides	NE	04/05/94	Hiatt
22	732	Rest House remodeled to serve as a Primer Mix Bowling building, note blow panels, west and south sides	NE	04/05/94	Hiatt
23	706	Mercury Preparation House, south and west sides	NE	04/05/94	Hiatt
24	706	Mercury Preparation House, south and west sides	NE	04/05/94	Hiatt
25	703 & 704	Heater House (#703-left) and Azide Building (#704-right), on 700 line that produced detonators, east and south sides	NW	04/05/94	Hiatt
26	740 & 713	Azide Napkin Preparation Building (#740-left) and its associated Heater House (#713-right), south and west sides	NE	04/05/94	Hiatt
27	744	Compressor House, south and west sides	NE	04/05/94	Hiatt
28	1003	General Purpose Warehouse - process storage, building ends at far side of loading dock, north and west sides	SE	04/05/94	Hiatt
29	1003	Second angle, General Purpose Warehouse - process storage, north and east sides	SW	04/05/94	Hiatt
30	1005	Process Storage Building with earthen berm, north and west sides	SE	04/05/94	Hiatt
31	1004	Oil and Paint Building, north front and east side	SW	04/05/94	Hiatt
32	1006	Metal Part Loading Building on the 1000 line that produced 105 mm ammunition, south and west sides	NE	04/05/94	Hiatt
33	1017	Screening Building, north and west sides	SE	04/05/94	Hiatt
34	1018	Air Compressor, Chicago Pneumatic, Aux. Booster Service		04/05/94	Hiatt
35	1018	Second angle, air compressor, Chicago Pneumatic, Aux Booster Service		04/05/94	Hiatt
36	1006	Metal Loading Building, first floor: Pour trailer (#95473)		04/05/94	Hiatt

Page: 3

GEO-MARINE INC.  
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 3

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Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
37	1006	Metal Loading Building, second floor: Cleveland Melt kettle (#5789)		04/05/94	Hiatt

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GEO-MARINE INC.  
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 4

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
2	1006	Metal Loading Building, second floor: second angle, Cleveland Melt kettle		04/05/94	Hiatt
3	1006	Metal Loading Building, second floor: Cyclone, Roto-Clone Air Scrubber (#70141)		04/05/94	Hiatt
4	1006	Metal Loading Building, second floor: second angle, Cyclone, Roto-Clone Air Scrubber (#70141)		04/05/94	Hiatt
5	1006	Metal Loading Building, second floor: Melting tanks (#42454)		04/05/94	Hiatt
6	1006	Metal Loading Building, second floor: second angle, Melting tanks (#42454)		04/05/94	Hiatt
7	1006	Metal Loading Building, third floor: Cyclone Roto-Clone Air Scrubber (#70139)		04/05/94	Hiatt
8	1006	Metal Loading Building, first floor: close up of Hot probs. (#68186)		04/05/94	Hiatt
9	1006	Metal Loading Building, first floor: close up, second angle of hot probs. (#68186)		04/05/94	Hiatt
10	1006	Metal Loading Building, first floor: Kettle bottom		04/05/94	Hiatt
11	1006	Metal Loading Building: Multiplex core units		04/05/94	Hiatt
12	1006	Metal Loading Building: second angle, Multiplex core units		04/05/94	Hiatt
13	1006	Metal Loading Building: second angle, Multiplex core units, south side		04/05/94	Hiatt
14	1006	Metal Loading Building: Continued "panorama" of multiplex core units, south side east		04/05/94	Hiatt
15	1017	Second floor, Dust collector and conveyor for propellant		04/05/94	Hiatt
16	1019	Cooling Building, south and west sides	NE	04/05/94	Hiatt
17	1020	T.N.T Screen House, north and west sides	SE	04/05/94	Hiatt
18	1011	Drill Booster and Shipping, south and west side	NE	04/05/94	Hiatt

GEO-MARINE INC.  
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 4

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
19	1047	Storage Shed, east and south sides	NW	04/05/94	Hiatt
20	1047	Storage Shed, east and south sides	NW	04/05/94	Hiatt
21	1011 ext	Box Unloading Ramps for railroad (modern addition?) at the Drill Booster and Shipping Building		04/05/94	Hiatt
22	1011 Ext	Box Unloading Ramps for railroad (modern addition?) at the Drill Booster and Shipping Building		04/05/94	Hiatt
24	1023 & 1022	Vacuum Pump Houses, north and east sides	SW	04/05/94	Hiatt
25	1012 & 1013	Vacuum Pump Houses, north and east sides	SW	04/05/94	Hiatt
26	1010	Booster House, north and west sides	SE	04/05/94	Hiatt
27	1078	Wash House for medium caliber loading buildings, east and south sides	NW	04/05/94	Hiatt
28	1071 & 1096	Vacuum Houses for medium caliber loading buildings, south and west sides	NE	04/05/94	Hiatt
29	1095	Vacuum House for medium caliber loading buildings, north side	S	04/05/94	Hiatt
30	1072 & 1090	Vacuum houses for medium caliber loading buildings		04/05/94	Hiatt
31	1072 & 1090	Vacuum houses for medium caliber loading buildings		04/05/94	Hiatt
32	1048 & 1082	Vacuum Pump House and Vacuum House		04/05/94	Hiatt
33	1048 & 1082	Vacuum Pump House and Vacuum House		04/05/94	Hiatt
34	2106A	Pump Station with low lift where water is pumped from the river, west front and south side	NE	04/06/94	Hiatt
35	2106A	Pump Station with low lift where water is pumped from the river, west front and south side	NE	04/06/94	Hiatt
36	2106	Water Treatment Plant: Raw Water Pump and motor (Knop 41064 and PM415)		04/06/94	Hiatt

GEO-MARINE INC.  
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 5

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
1	2106	Water Treatment Plant: Second angle of Raw Water Pump and Motor (Knop 41064 & PM415), south side of 2106		04/06/94	Hiatt
2	2106	Water Treatment Plant: Settling basin		04/06/94	Hiatt
3	2106	Water Treatment Plant: Sand filter		04/06/94	Hiatt
4	2106	Water Treatment Plant: Sand filter		04/06/94	Hiatt
5	2106	Water Treatment Plant, north front and west side	SE	04/06/94	Hiatt
6	2106	Water Treatment Plant, north front and west side	SE	04/06/94	Hiatt
7	2203	Sewage Sprinkler filters, southwest of Sewage Treatment Plant		04/06/94	Hiatt
8	2203	Sewage Sprinkler filters, southwest of Sewage Treatment Plant		04/06/94	Hiatt
9	2203 & 2211	Digester Tank (#2211-left) and Sewage Treatment Plant (#2203-right), west front and south side	NE	04/06/94	Hiatt
10	2203 & 2211	Digester Tank (#2211-left) and Sewage Treatment Plant (#2203-right), west front and south side	NE	04/06/94	Hiatt
11	2203	Sewage Settling basins, west side of Sewage Treatment Plant		04/06/94	Hiatt
12	2203	Sewage Drying Beds, east side of Sewage Treatment Plant		04/06/94	Hiatt
13	1202	Change House, west front and south side	NE	04/06/94	Hiatt
14	1202	Change House, west front and south side	NE	04/06/94	Hiatt
15	1206	Neutral Liquor Storage, north front and west side	SE	04/06/94	Hiatt
16	1206	Second angle, Neutral Liquor Storage		04/06/94	Hiatt
17	1205	Coal Boiler House on 1200 line serving as the Ammonia Nitrate Plant Modifier, south front and east side	NW	04/06/94	Hiatt
18	60	Railroad Scale House: Rutland Vermont Howe Scale (Knop #46809)		04/06/94	Hiatt
19	60	Railroad Scale House: second angle, Rutland Vermont Howe Scale (Knop #46809)		04/06/94	Hiatt



GEO-MARINE INC.  
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

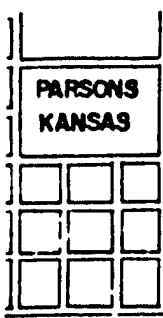
Installation: Kansas Army Ammunition Plant

Roll Number: 5

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
20	2105A	Stone Quarry Pump House, south front and west side	NE	04/06/94	Hiatt
21	1826	Finished Ammunition Magazine, south and west sides	NE	04/06/94	Hiatt
22	1147	Cooling Building (may have had a different original function), east front and south side	NW	04/06/94	Hiatt
23	1145	Drilling Building (original function unknown), north side	S	04/06/94	Hiatt
24	1113	Cooling Building, north and west side	SE	04/06/94	Hiatt
25	1113	Cooling Building (note: new siding), north and west side	SE	04/06/94	Hiatt
26	951	X-Ray Building, north and east sides	SW	04/06/94	Hiatt
27	910	Propellant Charge Building recently used as Rework Building, north and east side	SW	04/06/94	Hiatt
28	910	Close up of west end of the Propellant Charge Building, north side	SE	04/06/94	Hiatt
29	932, 933, & 934	Loading docks with conveyor, east side of line	W	04/06/94	Hiatt
30	934	Rail loading dock with semi-truck dock, south and east sides	NW	04/06/94	Hiatt
31	934	Rail loading dock with semi-truck dock, south and east sides	NW	04/06/94	Hiatt
32	Unk #	Water pump house which formerly served buildings in its locale		04/06/94	Hiatt
33	Unk #	Water pump house which formerly served buildings in its locale		04/06/94	Hiatt

①

PARSONS  
KANSAS



ADMIN  
IOC

CEMETERY ROAD

ROAD A

ROAD 2

MISSOURI

KANSAS

TEXAS

15  
22

15 16  
22 23

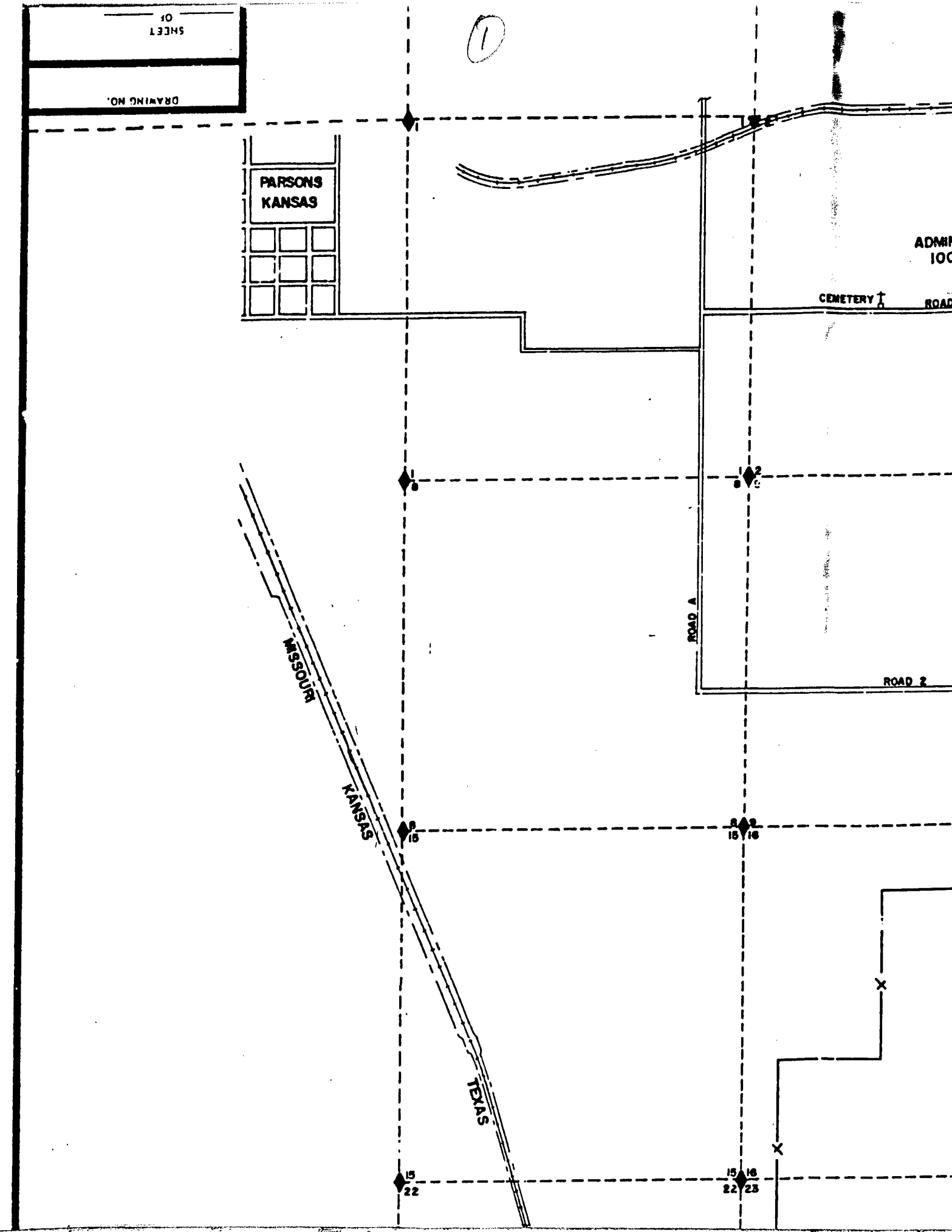
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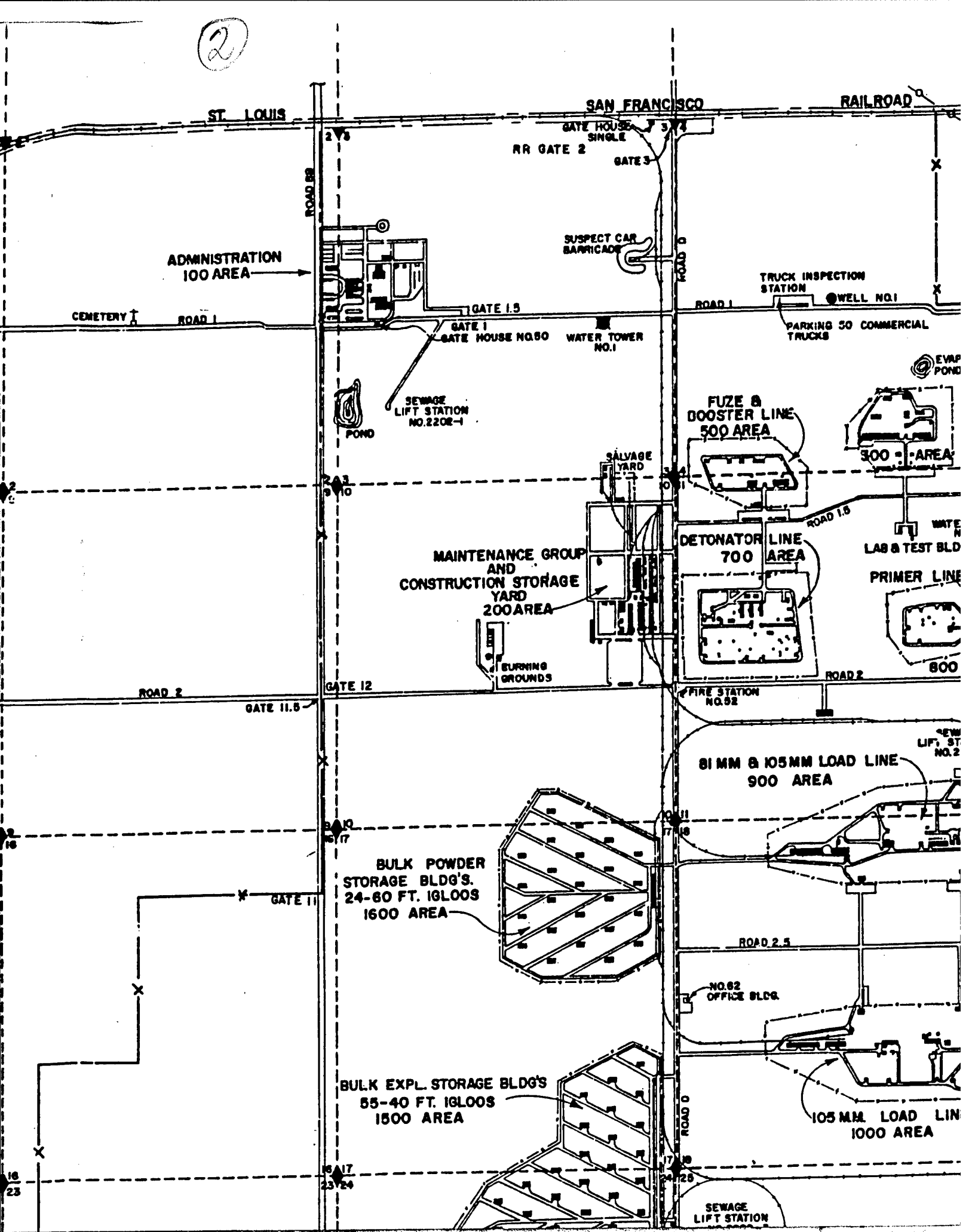
15 16

1 2  
8 9

X

X





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**(FRISCO LINES)**

●WELL NO.1

**GATE 4**

**GATE HOUSE  
SIGNAL**

## 66 K.V. LINE EMERGENCY

EVAPORATION  
POND

300 - AREA

FRANKLIN  
GENE DEPT

**FROST PROOF  
VAULTS**

**PREFERRED LINE**

~~POWER~~

TRANSMISSION

218

## WATER TOWER

**LAB & TEST BLDG'S**

**PRIMER LINE**

K EXPLOSIVE STORAGE &  
 FINISHED AMMUNITION  
 IGLOOS  
 1700 AREA X

## ROAD 2

## BOO AREA

**GATE 5**

## ROAD 2

### MAXIMUM LOAD LINE AREA

RECEIVED  
LIFE STATION  
NO. 2202-2

## GATE 5.5

**LEAD AZIDE AREA**

**NORTH  
SUBSTATION "A"**

### ROAD 3

## 2700 AREA

**DEMOLITION AREA-**

105 MM. LOAD LINE  
1000 AREA

**FINISHED AMMUNITION BLDG'S.**

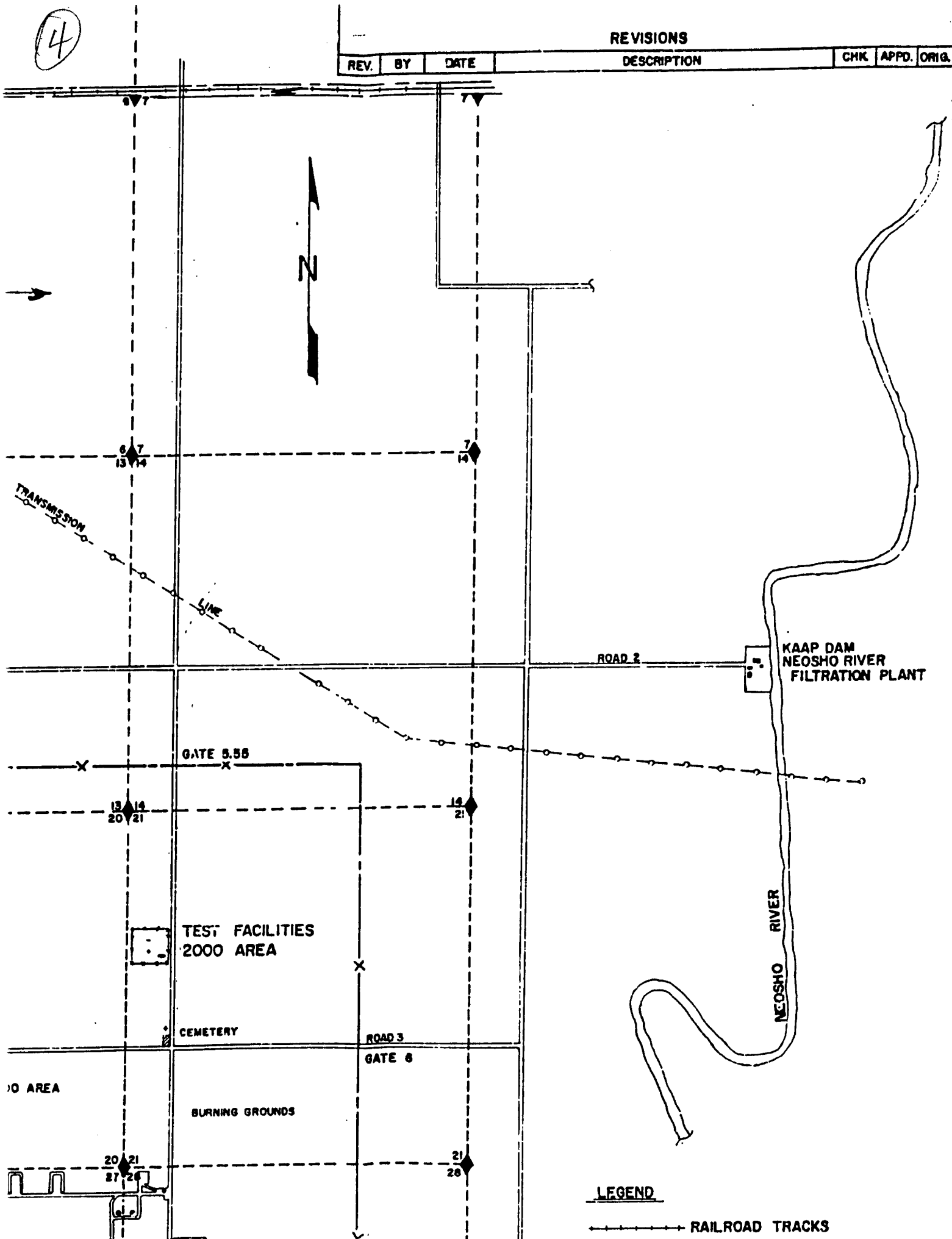
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4

REVISIONS

REV.	BY	DATE	DESCRIPTION	CHK.	APPD.	ORIG.
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LEGEND

RAILROAD TRACKS

IONS

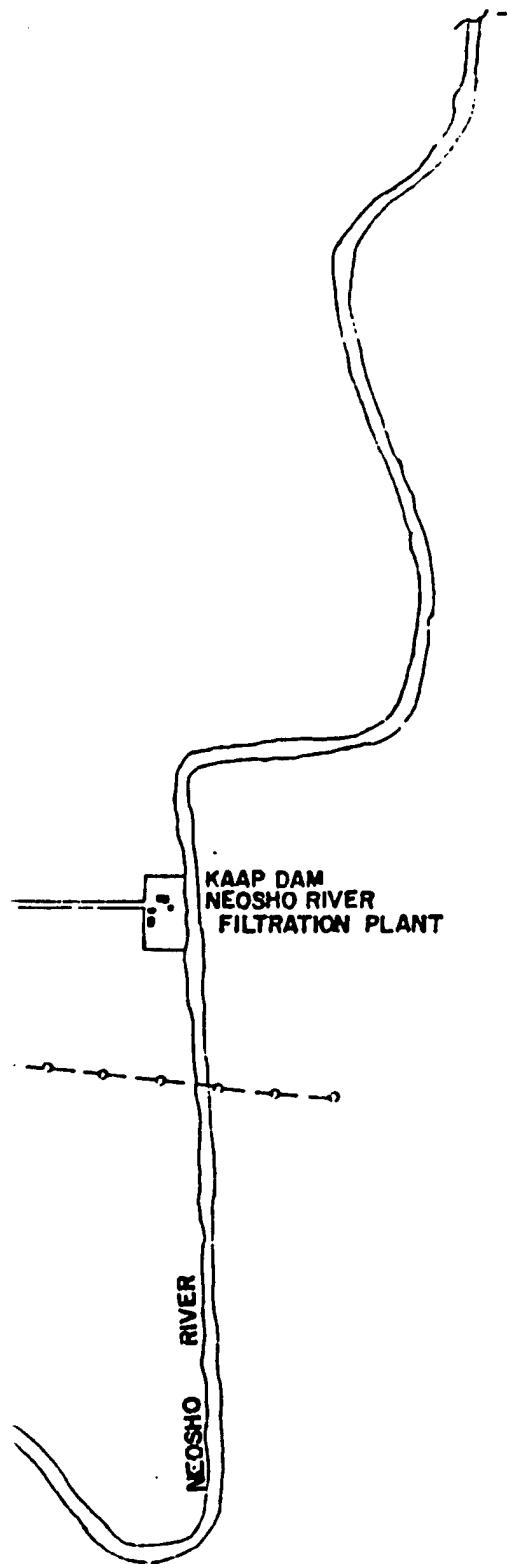
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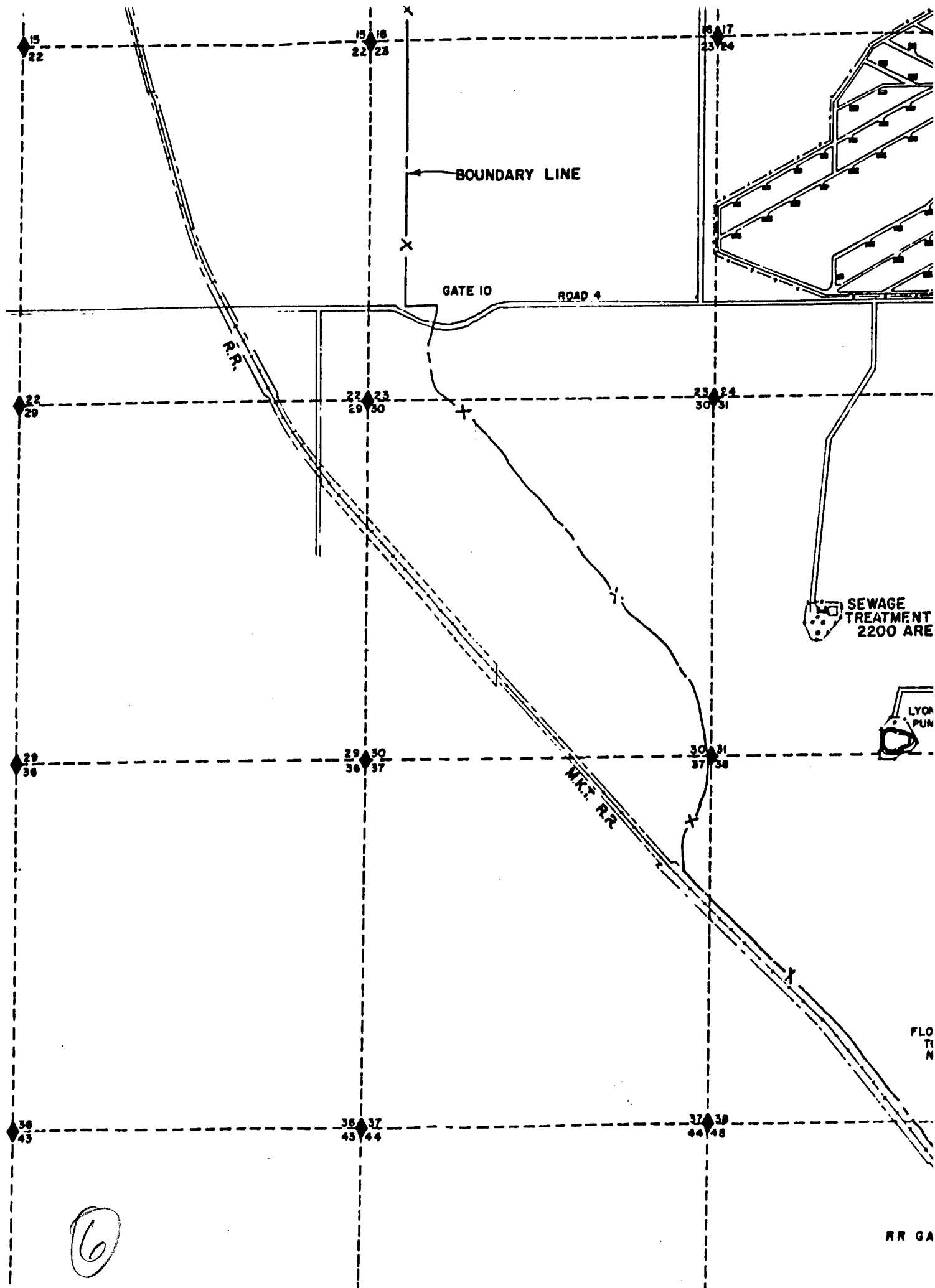
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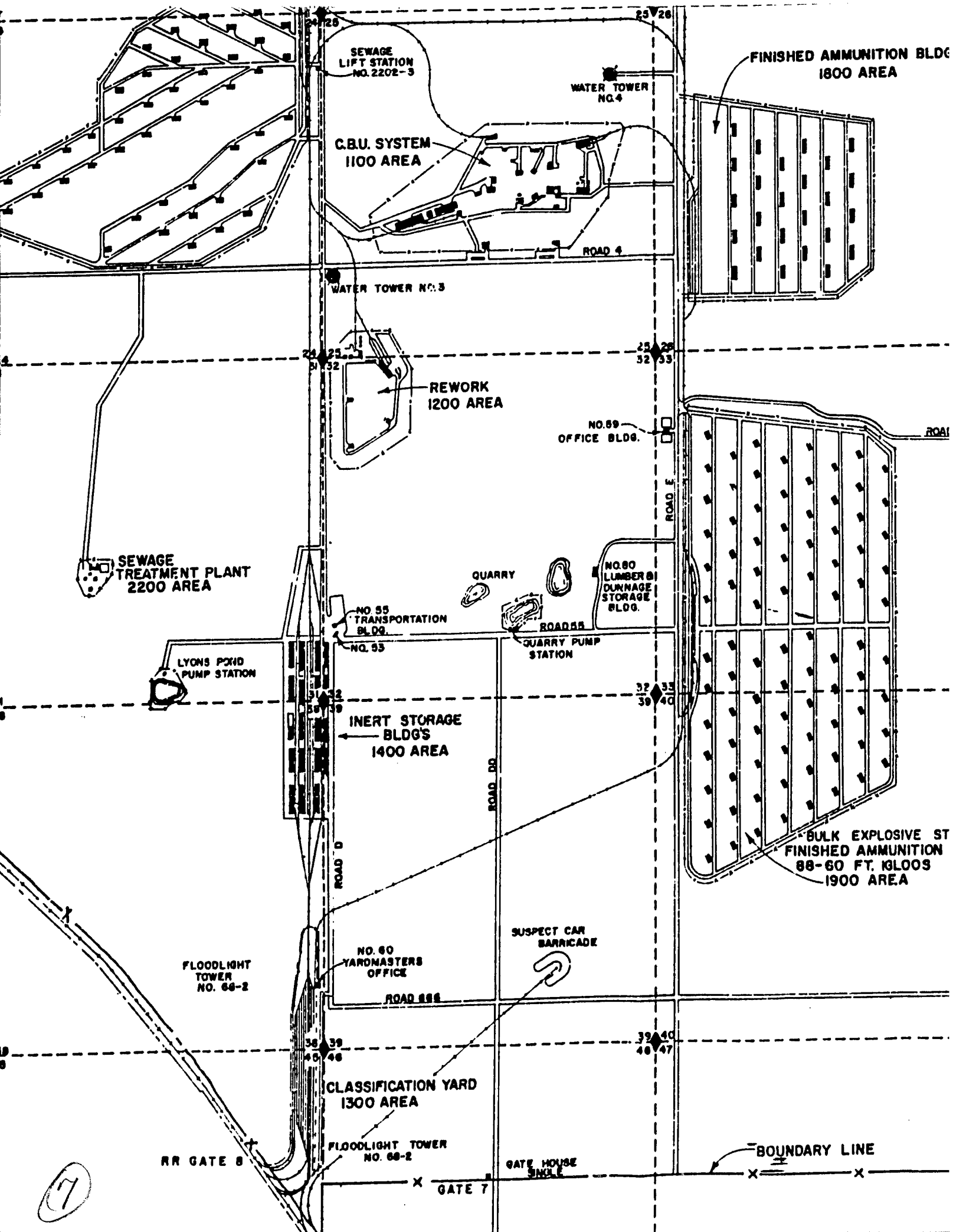


KAAP DAM  
NEOSHO RIVER  
FILTRATION PLANT

NEOSHO RIVER

+ RAILROAD TRACKS





SEWAGE  
LIFT STATION  
NO. 2202-3

WATER TOWER  
NO. 4

FINISHED AMMUNITION BLDG  
1800 AREA

C.B.U. SYSTEM  
1100 AREA

ROAD 4

WATER TOWER NO. 3

REWORK  
1200 AREA

NO. 59  
OFFICE BLDG.

ROAD E

SEWAGE  
TREATMENT PLANT  
2200 AREA

LYONS POND  
PUMP STATION

NO. 55  
TRANSPORTATION  
BLDG.

QUARRY

ROAD 55  
QUARRY PUMP  
STATION

NO. 80  
LUMBER &  
DUNNAGE  
STORAGE  
BLDG.

INERT STORAGE  
BLDG'S  
1400 AREA

ROAD D

BULK EXPLOSIVE ST  
FINISHED AMMUNITION  
88-60 FT. GLOOS  
1900 AREA

FLOODLIGHT  
TOWER  
NO. 68-2

NO. 60  
YARDMASTERS  
OFFICE

ROAD 55

SUSPECT CAR  
BARRICADE

CLASSIFICATION YARD  
1300 AREA

FLOODLIGHT TOWER  
NO. 68-2

RR GATE 8

GATE HOUSE  
SINGLE

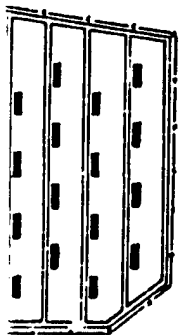
GATE 7

BOUNDARY LINE

7



ISHED AMMUNITION BLDG'S.  
1800 AREA



19 20  
26 27

20 21  
27 28

21 22  
28 29

26 27  
33 34

27 28  
34 35

28 29  
35 36

33 34  
40 41

34 35  
41 42

35 36  
42 43

40 41  
47 48

41 42  
48 49

BULK EXPLOSIVE STORAGE &  
FINISHED AMMUNITION BLDG'S.  
88-60 FT. GLOOS  
1900 AREA

DARY LINE

ROAD 4

ROAD 1

ROAD 5

ROAD F

ROAD 35

MONTANA

D &

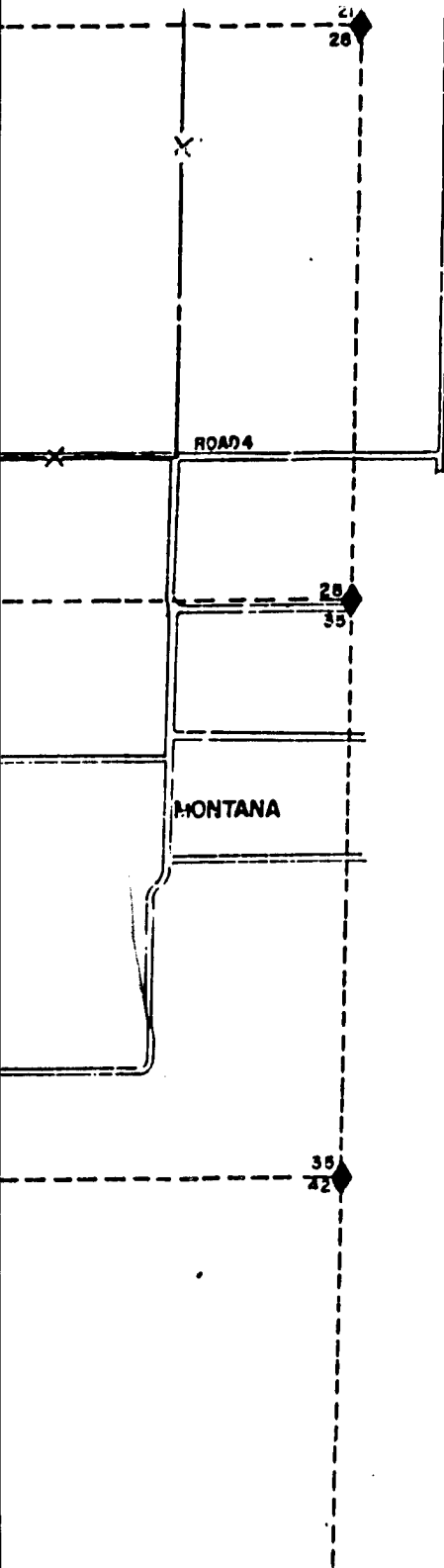
SAFETY

APPR

SAFETY

ENGINEERING

8



**LEGEND**

--- RAILROAD TRACKS

--- 5000 FOOT COORDINATE LINES

--- 25 26 32 35 --- 5000 FOOT AREA CORNERS

--- X --- RESERVATION BOUNDARIES

**D & Z**

**DAY AND ZIMMERMANN, INC.**

KANSAS DIVISION

OPERATOR OF

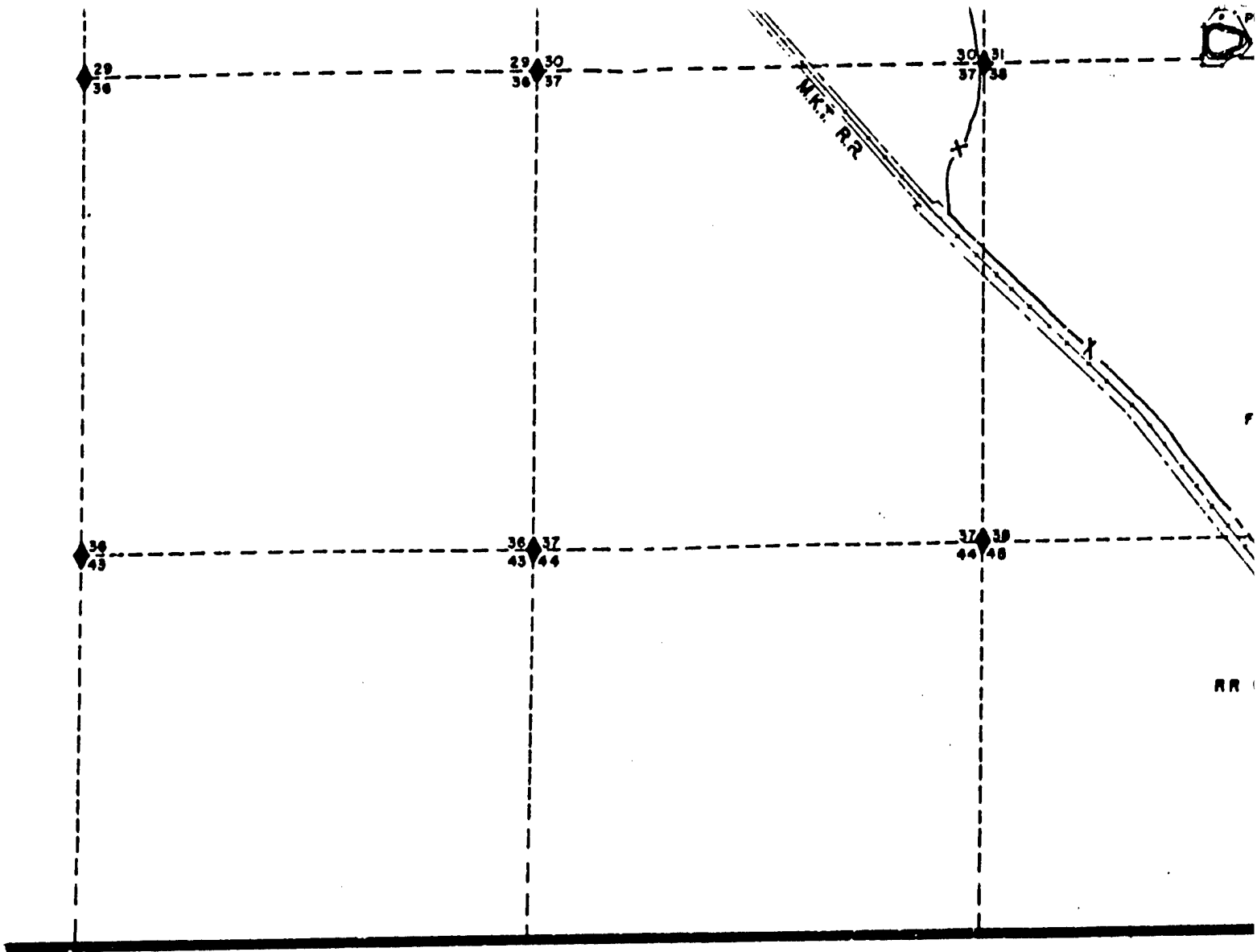
KANSAS ARMY AMMUNITION PLANT

PARSONS, KANSAS

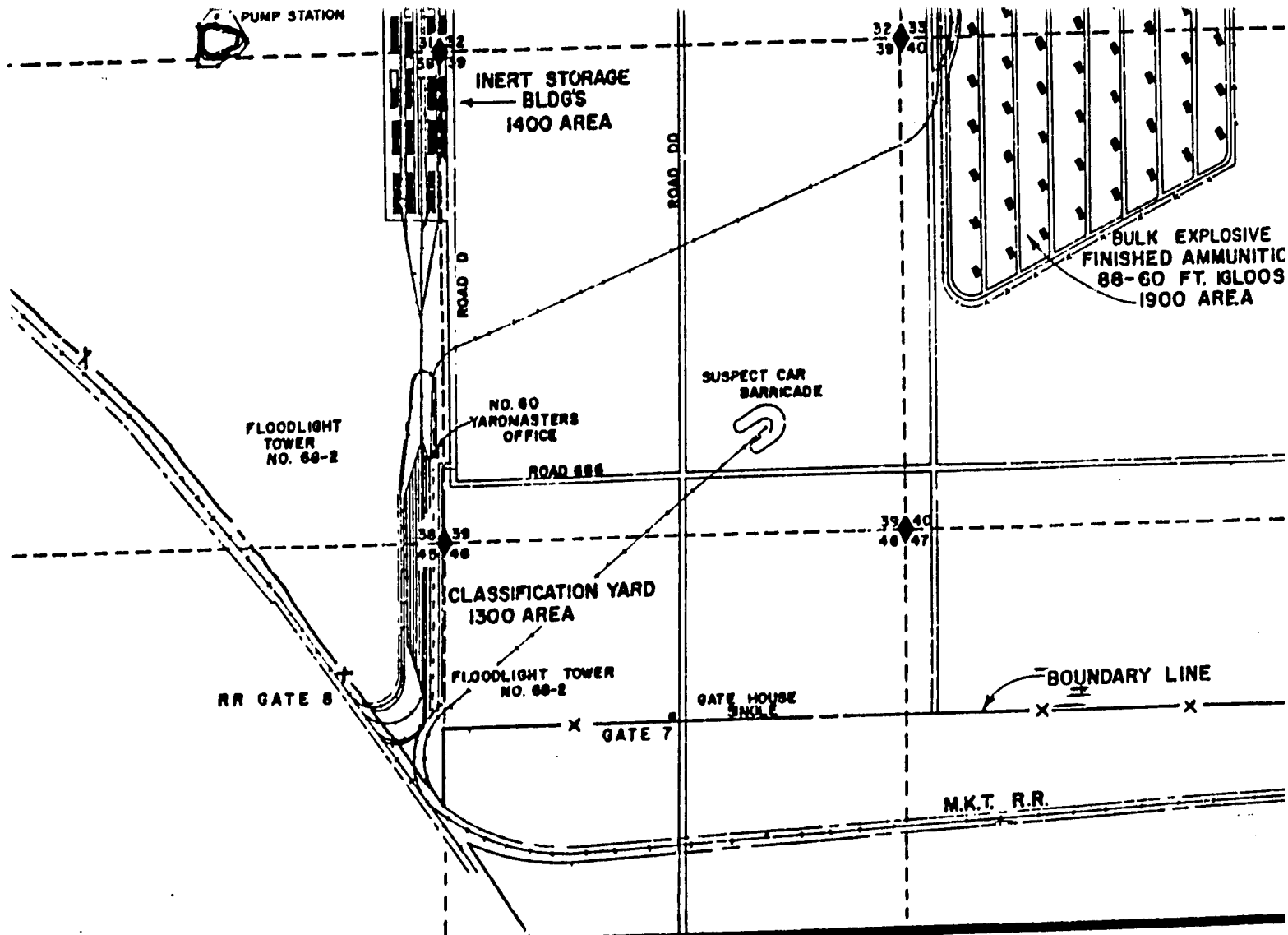
APPROVALS - U. S. ARMY			
SAFETY	DATE	COMMANDING OFFICER	DATE
APPROVALS - DAY & ZIMMERMANN, INC.			
SAFETY	DATE	PLANT MANAGER	DATE
ENGINEERING	DATE	PRODUCTION	DATE

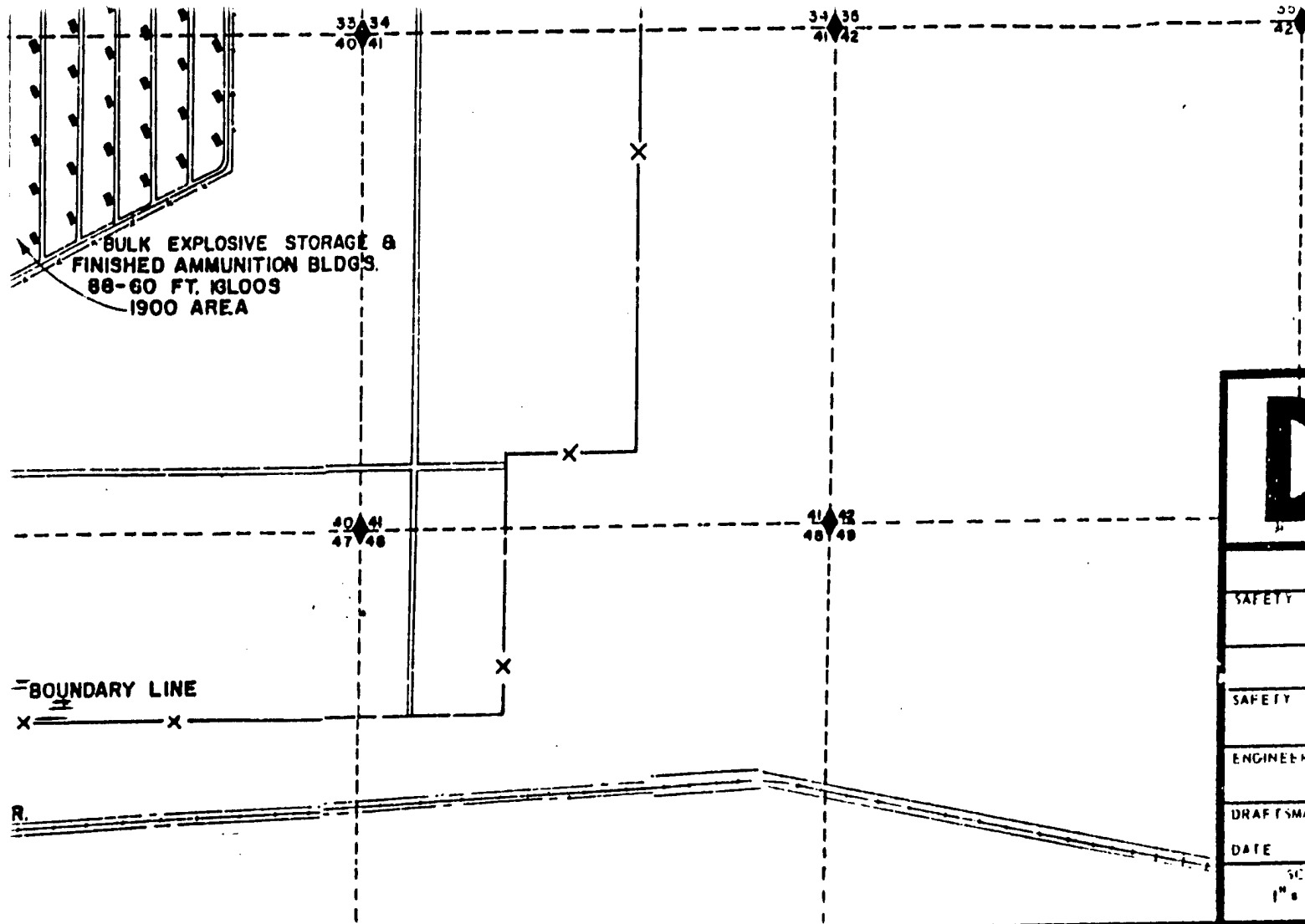
TITLE

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12

**D&Z****DAY AND ZIMMERMANN, INC.**

KANSAS DIVISION

OPERATOR OF

KANSAS ARMY AMMUNITION PLANT

PARSONS, KANSAS

APPROVALS - U. S. ARMY				TITLE	
SAFETY	DATE	COMMANDING OFFICER	DATE		
APPROVALS - DAY & ZIMMERMANN, INC.					
SAFETY	DATE	PLANT MANAGER	DATE		
ENGINEERING	DATE	PRODUCTION	DATE		
DRAFTSMAN	CHECKER	ENGINEER		AREA GENERAL	
DATE	DATE	DATE			
SCALE 1" = 1320'	CH. DRAFTSMAN	BILL OF MATERIALS		SHEET OF	BLDG.
	DATE				

13